

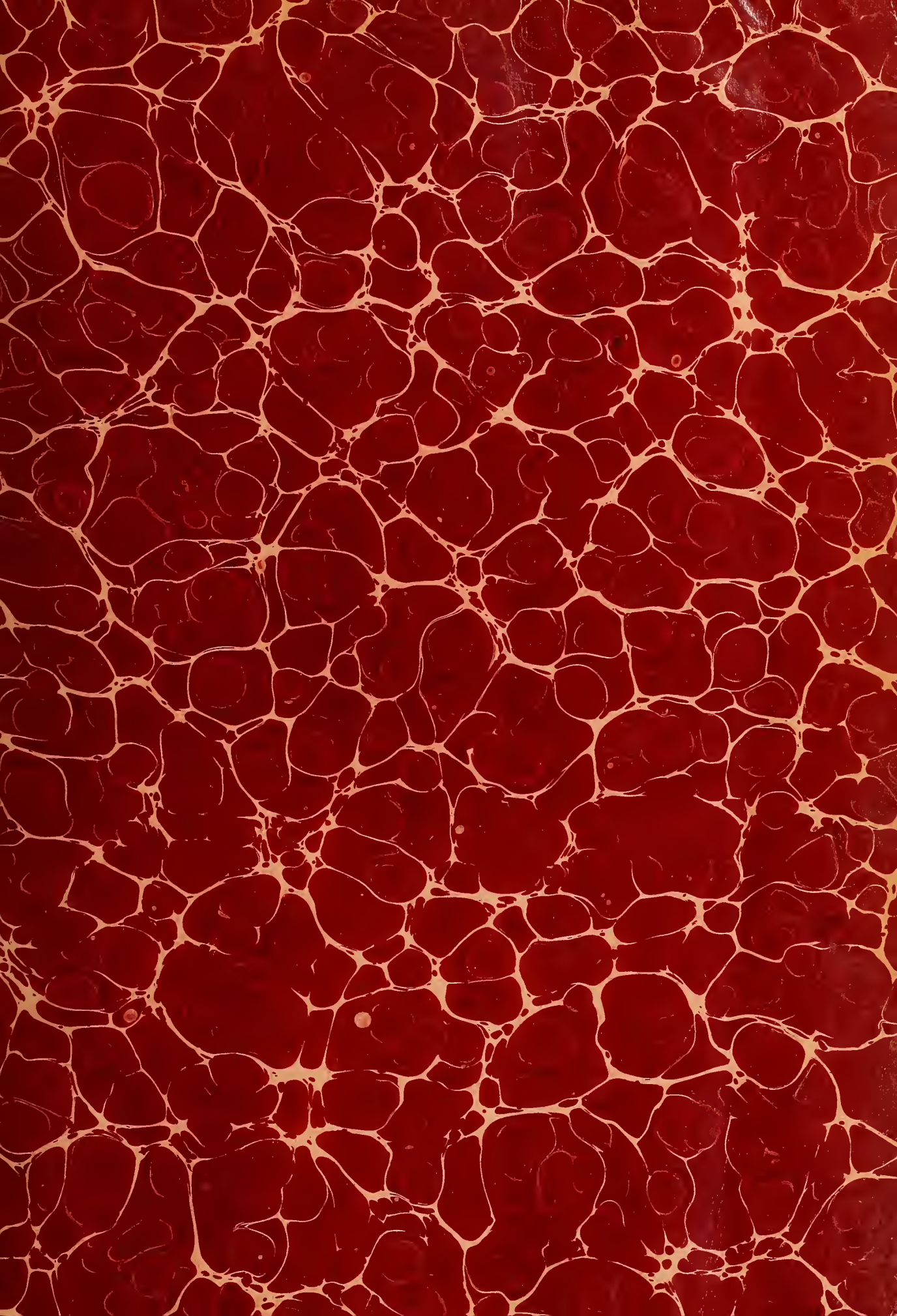
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MANUAL OF CLASSIFICATION
OF
SUBJECTS OF INVENTION
OF THE
UNITED STATES PATENT OFFICE

REVISED TO JANUARY 1, 1916

(INCLUDING CLASSIFICATION BULLETIN No. 35)



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WASHINGTON
GOVERNMENT PRINTING OFFICE
1916

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ORDER OF THE COMMISSIONER.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., January 1, 1916.

Following is the official classification of subjects of invention in the Patent Office. No changes will be made in class or subclass titles except by order of the Commissioner.

Should occasion arise for any modification, either by the discontinuance or change of any title or by the addition of a new one, the matter will be presented to the Commissioner for his action.

Examiners shall not transfer official copies of specifications and drawings from one class or subclass to another except by approval of the Examiner of Classification.

Changes in classes and subclasses will be published in the OFFICIAL GAZETTE.

THOMAS EWING,
Commissioner of Patents.

INSTRUCTIONS.

This Manual is an instrument for use in searching classified United States patents. It comprises lists of classes, class and subclass schedules, and an alphabetical index of all class and subclass titles. The classification is designed to aid an investigator to locate a means of the useful arts when he knows its essential characteristics, whether or not he is familiar with the name or names by which it may be called. Effective use of it will require some intellectual effort. The index is designed to enable any one to locate the place in the classification of any means named in the subclass titles. The index is useful for search purposes only when the name by which the investigator knows any art or instrument is the name applied in the classification titles.

In order to get the greatest aid from this Manual, the "Definitions of Revised Classes" and the semiannual "Classification Bulletins" referred to hereafter should be used in connection with it.

PLAN OF MANUAL.

This Manual contains (1) a list of the names of the Primary Examiners in alphabetical order, with the numbers of the rooms and of the division over which each presides; (2) a list of examining divisions arranged in numerical order, with a list of classes comprised in each; (3) a list of classes arranged in alphabetical order, with a reference to the division to which each is assigned; (4) a list of proposed generic departments of the useful arts; (5) a list of classes arranged by generic departments intended to display the arts in their natural relations; (6) a list of all classes arranged in numerical order, with the subclasses in each class indented under the class number; (7) an alphabetical index of all titles of classes and subclasses, copiously cross-referenced; (8) a list of classes arranged in numerical order.

CLASSES.

In the Patent Office classification, subjects of invention are divided at the present time into 262 classes, each class comprising a number of subclasses. The class numbers run from 1 to 273, except that numbers 96, 180, 183, 249, 251, 260, 262, 265, 270, and 271 are not yet assigned to completed classes. The class numbers are arbitrary, serving merely as marks of identification.

Of the 262 classes, 130 have at this date been revised, the nature of the inventions comprised in each defined or explained, and classes and subclasses to be searched in connection therewith indicated.

HOW REVISED CLASSES ARE IDENTIFIED.

Titles of classes that have been revised are marked by an asterisk in the several class lists and schedules of subclasses, indicating a footnote that refers to the "Definitions of Revised Classes," etc., printed as a supplement to this "Manual of Classification."

HOW TO READ SUBCLASS TITLES AND DEFINITIONS.

The title of any subclass in the indented schedules should be read as follows: (1) The title of the class; (2) the title of the selected major subclass in the vertical column at extreme left; (3) the title of the selected minor subclass indented thereunder in the second vertical column; (4) the title of the selected minor subclass thereunder in the third vertical

INSTRUCTIONS.

column, and so on. Example: Certain subclasses in the schedule of class 187, Elevators, are as follows:

- 72. Cable-releasers.
- 73. Car brakes and catches—
- 74. Door-controlled,
- 75. Landing-chairs—
- 76. Car-supported,
- 77. Driven catch devices—
- 78. Rotating gear,
- 79. Well-supported,
- 80. Car-supported—
- 81. Cable-controlled—
- 82. Positive—
- 83. Rail-side,
- 84. Sliding,
- 85. Rail-face,
- 86. Rail-side—
- 87. Eccentric,
- 88. Wedge,
- 89. Speed-controlled—
- 90. Rail-side—
- 91. Vertically-pivoted,
- 92. Operator-controlled—
- 93. Rail-side.

Thus the full title of subclass 91, class 187, should be read as follows: Elevators, Car brakes and catches, Car-supported, Speed-controlled, Rail-side, Vertically-pivoted. The definitions of subclasses should be read in the same manner. Thus the definition of subclass 91, class 187, should be read in connection with the class definition and with the definitions, successively, of subclasses 73, 80, 89, and 90.

The definition of a subclass *may* state only the *difference* between it and the subclass under which it is indented. Full comprehension of its significance, therefore, requires that it be read as a *qualification* of the more generic class and subclass of which it is a species.

NUMBERING OF SUBCLASSES.

In the revised classes numbers are assigned to the subclasses in the inverse order of the complexity of the inventions included therein, the lowest numbers being applied to the complex wholes, such as the miscellaneous, special work, and combined machines, the next higher numbers to the simple whole machines, the next higher to the major parts, and the next higher to the minor parts or details and accessories. The preceding subclasses are deemed "superior" to the succeeding ones. This order of subclasses permits of uniformity in assigning inventions containing features classifiable in more than one subclass, the rule being to assign the invention to the lowest numbered subclass that may properly receive it and cross-reference it into the higher numbered subclass or subclasses adapted to receive its parts. In a revised class having the subclasses arranged according to this rule no invention should be found in any subclass *following* the one properly entitled to receive it, although it *may* be found in *preceding* subclasses as a part of some other organization. (See "The Classification of Patents," 1915.)

In this Manual the undefined classes have their subclasses arranged in alphabetical order. The defined classes have their subclasses arranged in order of superiority, as explained in the preceding paragraph. This order is intended to be numerical; but subclasses of all revised classes are printed in the order of assumed superiority and inferiority, even where the numbering is at variance with the rule.

The rule of superiority and inferiority applies also to patents containing subject-matter classifiable in more than one class, the invention being assigned to the most complex class susceptible of receiving it and cross-referenced, if necessary, to the more elemental classes. Between classes, however, the numerical relation that exists between subclasses of the same class does not obtain.

Illustrated-matter not alleged to be a part of the invention protected in a patent is placed by cross-reference.

COMPOSITION OF CLASSES.

All of the statutory classes of invention or any one or more of them—art, machine, manufacture, and composition of matter—may occur in the same class (*Cf.* class 131, Tobacco; class 176, Electric Lamps). There are, however, no classes at present limited to arts or processes.

Processes, particularly mechanical processes, are commonly classified with the instruments specially adapted to aid in practicing them. (*Cf.* class 22, Metal-Founding.)

Processes limited to the use of particular ingredients for producing a specified composition are classified with the composition.

Compositions of matter are commonly classified with the processes, and sometimes with the instruments for making them. (*Cf.* class 23, Chemicals; class 87, Oils, Fats, and Glue; class 134, Liquid Coating Compositions.)

Manufactures or fabricated shaped articles are sometimes classified in classes by themselves (*cf.* class 85, Driven, Headed, and Screw-Threaded Fastenings; class 245, Wire Fabrics and Structure), but are in some classes associated with the processes and instruments for making them. (*Cf.* class 28, Cordage; class 231, Whips and Whip Apparatus.)

In some classes processes are included in the same subclasses with instruments, usually under a participial title (*cf.* class 92, Paper-Making and Fiber Liberation), and in others are placed in distinct subclasses. (*Cf.* class 22, Metal-Founding.)

Blanks are deemed to represent a stage in a process of making an article and are commonly classified with the processes when the form of the blank has wholly disappeared from the finished article. (*Cf.* class 29, Metal-Working, subclass 148, Blanks and processes, *et seq.*) Blanks that have to be searched for among the finished articles are classified with the articles. (*Cf.* class 229, Paper Receptacles.)

Accessories are classed with the instruments to which they are peculiar.

BASIS OF CLASSIFICATION.

As revision of the classification is incomplete and fixed rules of classification do not obtain in both revised and unrevised classes, definite principles to be followed in placing and searching for inventions can be stated only with respect to revised classes.

As all patentable arts or instruments are created for an ulterior utility which may be either general or special, extensive or intensive, the general basis of classification of them is their essential functions or effects. Those having like functions, producing like products or classes of products and like effects or classes of effects, are purposed to be brought together; but the functions or effects that serve as a basis of classification must be the proximate or essential ones and not those remote or accidental ones for which the invention may be adapted.

DIFFERENCES IN SCOPE OR EXTENSION OF CLASSES.

The assemblage of all or less than all of the statutory classes of invention in any class and the extensiveness or intensiveness of the function or effect that is adopted as the characteristic of inventions included in any class depend on the closeness of relationship of the several statutory classes in those inventions possessing that characteristic and on the numerical extent of such inventions. If the numerical extent of the inventions having a common generic function and effect is great, they may be comprised in several classes, each with closely related subclasses and containing only one or two of the statutory classes of invention, as in the group of inventions based on the shaping of metals. (*Cf.* classes 22, Metal-Founding; 80, Metal-Rolling; 205, Metal-Drawing, etc.) If the numerical extent of the inventions is small, they may all be assembled in a class of wide extent and loosely related subclasses containing all of the statutory kinds of invention, as in those based on the production of ornamental effects. (*Cf.* class 41, Ornamentation.)

INSTRUCTIONS.

SUGGESTIONS FOR SEARCH.

In searching for anticipating arts or instruments

- (1) Determine what is the *essential* function or effect of the art or instrument to be sought.
- (2) Scan the titles in the selected department or in the numerical or alphabetical list of class titles and note those that appear to include the invention sought.
- (3) Note particularly that one which has the most intensive or specific title that includes the invention.
- (4) If the selected class has been revised, inspect carefully the class definition. If it indicates the selected class as the proper one,
- (5) Scan the schedule of subclasses of the selected class, inspecting first the major coordinate subclasses whose titles begin farthest to the left and the initial letters of which are arranged in vertical alinement.
- (6) Select the most specific major subclass title that appears to include the invention (this will usually have the highest number of those that include it) and study the definition thereof, if the class has been revised. If the definition includes the invention,
- (7) Scan the schedule of minor subclasses indented one place to the right immediately under the selected major subclass, selecting the most specific title (that having the highest number) of those that appear to include the invention.
- (8) So proceed until the most specific minor subclass is reached whose title suggests the inclusion of the invention in question and then inspect the patents composing it.
- (9) If this subclass contains nothing pertinent, search the more generic subclasses *under which it is indented*, the miscellaneous subclass, and those above it the titles of which indicate the possibility that they may include the thing sought.
- (10) Still if nothing pertinent is found, search the other possible classes noted in the same way.

In all cases in which search in a *revised* class in the highest numbered subclass (or that having the lowest position in the schedule) that can receive the sought invention as a whole fails to discover it search should be continued in those subclasses having lower numbers (or placed higher in the schedule) the titles of which indicate that they may include the sought invention, whether or not search notes direct or suggest search in those subclasses.

EXAMPLE.

A search for a carpenter's handsaw and the art of making it.

A handsaw is generically a woodworking and specifically a wood-sawing hand-tool and involves in its manufacture the metal treating and working arts, among others.

Inspection of the lists of classes discloses four classes that might include a handsaw—to wit, class 144, Woodworking; class 143, Wood-Sawing; class 81, Tools; and class 145, Woodworking-Tools. The two most intensive titles that appear to include the tool sought are 143, Wood-Sawing, and 145, Woodworking-Tools. These are revised classes. The definition of class 143 excludes handsaws, unless the invention is in the cutting part; but that of class 145 does not.

Casting the eye down the major subclasses of the schedule of class 145, subclass 31, Handsaws, with minor subclasses indented thereunder, is reached. As the tool is not an attachment, has not a truss-frame nor a U-frame, search should be made in subclass 31. If there are analogous constructions elsewhere classified, the search directions following the definition thereof will so indicate.

If a saw-handle is sought, a similar procedure will bring the attention to the several subclasses of "Saw-handles" in the same class. If a construction and arrangement of the saw-teeth is sought, the definitions direct the search to class 143, as the cutting-teeth of handsaws and machine-saws may be similar. If a bolt for securing the handle to the blade is sought, it will be apparent that bolts are of more general application than as fastenings for the parts of a handsaw and that the bolt may not therefore be classified in the

same class with the saw and parts peculiar thereto. Inspection of one of the lists of classes will disclose class 85, Driven, Headed, and Screw-Threaded Fastenings, as a probable class. Inspection of the schedule and definitions of this class shows several subclasses of "bolts," the most likely one of which should be searched in the manner indicated for the search for the complete tool.

If a process or instrument for making the saw is sought, it should be kept in mind that the manufacture of a saw involves the metal-working arts. Inspection of the lists of classes discloses several metal-working classes, specifically class 76, Metal Tools and Implements, Making. Turning to the definitions of this class, it will be found that saw-making is included in it, and the schedule of subclasses will disclose a number of subclasses indented under subclass 25, Saw-making, in one of which the nearest references will be found *if the process or instrument sought is peculiar to saw-making*. If, however, the sought invention relates to operations or instruments applicable to the manufacture of other things, as to the formation of the sheet of steel from which the saw-blade is to be formed, the lists of classes disclose class 29, Metal-Working, and class 80, Metal-Rolling, as the most likely classes to search; if it relates to shearing out the blade-blank from a sheet or punching the bolt-holes, class 164, Cutting and Punching Sheets and Bars; if to the tempering of the blade, class 148, Annealing and Tempering; if to the polishing of the blade, class 51, Grinding and Polishing; if to the etching of an ornamental design by acids, class 41, Ornamentation; if to the process or machine for making the wooden handle, class 144, Woodworking; if to the varnish with which the handle is coated, class 134, Liquid Coating Compositions; if to the process or means for applying the varnish to the handle, class 91, Coating, and so on.

EXAMINERS IN CHARGE OF EXAMINING DIVISIONS.

	Div.	Room.		Div.	Room.
Armstrong, H. C.....	11	154	MacNab, J. F.....	5	167
Baldwin, M.....	2	128	Marine, R. E.....	26	105
Bancroft, J. F.....	32	278	Maxson, L. W.....	14	307
Benson, A. R.....	28	63	Merritt, A. D.....	4	234
Brown, J. I.....	41	125	Mitchell, T. H.....	10	235
Carnes, J. H..Trade-Marks and Designs.....		163	Moore, M. J.....	19	236
Colwell, J. H.....	22	249	Morris, B. N.....	29	147
Cowles, A. W.....	39	321	Morton, G. L.....	36	264
Cowles, W. A.....	33	70	Nixon, G. A.....	13	329
Darby, J. J.....	24	144	Porter, M. E.....	18	327
Disney, I. P.....	42	244	Rafter, G. S.....	17	303
Ely, G. S.....	31	172	Redrow, W. L.....	15	308
Giles, A. H.....	21	182	Rich, W. J.....	3	175
Glascock, A. E.....	40	280	Ruckman, W. S.....	37	107
Gould, C. G.....	27	375	Sadler, L. A.....	12	324
Groesbeck, W. D.....	23	379	Shaw, A. P.....	35	57
Ide, G. R.....	38	378	Simpson, G. R.....	34	804
Kinnan, W. A.....	16	109	Sullivan, M. R.....	30	152
Lane, C. H.....	43	382	Tryon, F. M.....	9	142
Lewers, A. M.....	6	318	Tucker, G. P.....	8	131
Lightfoot, J. H.....	25	315	Underwood, L. D.....	7	312
Loeffler, F. A.....	1	314	Wright, H.....	20	182

CLASSES ARRANGED BY EXAMINING DIVISIONS.

DIVISION OF TRADE-MARKS AND DESIGNS.— EXAMINER CARNES.

- 165. Designs.
- Trade-Marks.
- Prints and Labels.

DIVISION I.—EXAMINER LOEFFLER.

- 268. Closure-Operators.
- 256. Fences.*
- 39. Gates.*
- 55. Harrows and Diggers.
- 97. Plows.
- 269. Railway-Gates.
- 111. Seeders and Planters.
- 47. Trees, Plants, and Flowers.

DIVISION II.—EXAMINER BALDWIN.

- 6. Bee Culture.*
- 156. Curtains, Shades, and Screens.
- 31. Dairy.
- 216. Label-Pasting and Paper-Hanging.*
- 167. Medicines.
- 129. Paper Files and Binders.*
- 98. Pneumatics.
- 100. Presses.
- 135. Tents, Canopies, Umbrellas, and Canes.*
- 131. Tobacco.

DIVISION III.—EXAMINER RICH.

- 148. Annealing and Tempering.
- 204. Electrochemistry.
- 219. Electric Heating and Rheostats.*
- 263. Heating.*
- 22. Metal-Founding.*
- 266. Metallurgical Apparatus.*
- 75. Metallurgy.
- 207. Plastic Metal Working.*

DIVISION IV.—EXAMINER MERRITT.

- 193. Conveyers.
- 187. Elevators.*
- 37. Excavating.
- 57. Hoisting.
- 214. Loading and Unloading.
- 243. Pneumatic Despatch.*
- 254. Pushing and Pulling Implements.*
- 258. Railway Mail Delivery.*
- 186. Store-Service.*
- 212. Traversing Hoists.*

DIVISION V.—EXAMINER MACNAB.

- 11. Bookbinding.
- 56. Harvesters.
- 63. Jewelry.*
- 84. Music.

DIVISION VI.—EXAMINER LEWERS.

- 8. Bleaching and Dyeing.
- 23. Chemicals.
- 52. Explosives.
- 71. Fertilizers.
- 134. Liquid Coating Compositions.*
- 106. Plastic Compositions.*
- 99. Preserving.
- 252. Substance Preparation.
- 127. Sugar and Salt.

DIVISION VII.—EXAMINER UNDERWOOD.

- 192. Clutches.
- 35. Educational Appliances.
- 46. Games and Toys.
- 185. Motors.*
- 88. Optics.*
- 208. Velocipedes.

* See Definitions of Revised Classes.

CLASSES ARRANGED BY EXAMINING DIVISIONS.

DIVISION VIII.—EXAMINER TUCKER.

- 5. Beds.
- 155. Chairs.
- 272. Flexible-Sheet-Securing Devices.
- 45. Furniture.
- 65. Kitchen and Table Articles.
- 211. Store Furniture.
- 248. Supports.

DIVISION IX.—EXAMINER TRYON.

- 230. Air and Gas Pumps.
- 138. Hydraulic Motors.
- 253. Motors—Fluid.*
- 170. Motors—Fluid-Current.*
- 103. Pumps.

DIVISION X.—EXAMINER MITCHELL.

- 21. Carriages and Wagons.
- 267. Spring Devices.

DIVISION XI.—EXAMINER ARMSTRONG.

- 12. Boot and Shoe Making.*
- 36. Boots, Shoes, and Leggings.*
- 218. Button, Eyelet, and Rivet Setting.*
- 54. Harness.*
- 69. Leather Manufactures.*
 - 1. Nailing and Stapling.*
- 231. Whips and Whip Apparatus.*

DIVISION XII.—EXAMINER SADLER.

- 64. Journal-Boxes, Pulleys, and Shafting.
- 184. Lubrication.*
- 74. Machine Elements.

DIVISION XIII.—EXAMINER NIXON.

- 86. Arms, Projectiles, and Explosive Charges, Making.*
- 10. Bolt, Nail, Nut, Rivet, and Screw Making.*
- 77. Boring and Drilling.*
- 79. Button-Making.*
- 59. Chain, Staple, and Horseshoe Making.*
- 85. Driven, Headed, and Screw-Threaded Fastenings.*
- 90. Gear-Cutting, Milling, and Planing.*
- 205. Metal-Drawing.*
- 78. Metal Forging and Welding.*
- 80. Metal-Rolling.*
- 76. Metal Tools and Implements, Making.*
- 29. Metal-Working.*
- 163. Needle and Pin Making.*
- 151. Nut and Bolt Locks.*
- 82. Turning.*

DIVISION XIV.—EXAMINER MAXSON.

- 7. Compound Tools.*
- 164. Cutting and Punching Sheets and Bars.*
- 168. Farriery.*
- 153. Metal-Bending.*
- 201. Metal-Ornamenting.*
- 113. Sheet-Metal Ware, Making.*
 - 81. Tools.*
- 245. Wire Fabrics and Structure.*
- 140. Wire-Working.*

DIVISION XV.—EXAMINER REDROW.

- 107. Bread, Pastry, and Confection Making.*
- 91. Coating.*
- 44. Fuel.
- 49. Glass.*
- 154. Laminated Fabric and Analogous Manufactures.*
- 92. Paper-Making and Fiber Liberation.*
- 25. Plastic Block and Earthenware Apparatus.*
- 18. Plastics.*

DIVISION XVI.—EXAMINER KINNAN.

- 177. Electric Signaling.
- 250. Radiant Energy.*
- 178. Telegraphy.*
- 179. Telephony.*

* See Definitions of Revised Classes.

CLASSES ARRANGED BY EXAMINING DIVISIONS.

DIVISION XVII.—EXAMINER RAFTER.

- 198. Matrix-Making.
- 93. Paper Manufactures.*
- 101. Printing.
- 199. Type-Bar Making.

DIVISION XVIII.—EXAMINER PORTER.

- 50. Fluid-Pressure Regulators.*
- 162. Injectors and Ejectors.
- 123. Internal-Combustion Engines (subclasses 80, 81, 188, 189, and 199).*
- 122. Liquid Heaters and Vaporizers.*
- 60. Miscellaneous Heat-Engine Plants.*
- 264. Speed-Responsive Devices.*
- 160. Steam and Vacuum Pumps.
- 121. Steam Engines.
- 136. Steam-Engine Valves.

DIVISION XIX.—EXAMINER MOORE.

- 236. Dampers. Automatic.
- 110. Furnaces.*
- 237. Heating Systems.*
- 126. Stoves and Furnaces.*

DIVISION XX.—EXAMINER WRIGHT.

- 3. Artificial Body Members.*
- 16. Builders' Hardware.
- 30. Cutlery.
- 32. Dentistry.
- 70. Locks and Latches.
- 109. Safes.
- 27. Undertaking.

DIVISION XXI.—EXAMINER GILES.

- 13. Brakes and Gins.
- 19. Carding.
- 26. Cloth-Finishing.
- 273. Continuous-Strip Feeding.
- 28. Cordage.
- 38. Felt and Fur.
- 66. Knitting and Netting.
- 117. Silk.
- 118. Spinning.*
- 139. Weaving.
- 242. Winding and Reeling.*

DIVISION XXII.—EXAMINER COLWELL.

- 244. Aeronautics.*
- 124. Air Guns, Catapults, and Targets.*
- 102. Ammunition and Explosive Devices.*
- 9. Boats and Buoys.*
- 42. Firearms.*
- 115. Marine Propulsion.*
- 89. Ordnance.*
- 114. Ships.*

DIVISION XXIII.—EXAMINER GROESBECK.

- 181. Acoustics.*
- 133. Coin Handling.*
- 58. Horology.*
- 234. Recorders.*
- 235. Registers.*
- 161. Time Controlling Mechanism.*

DIVISION XXIV.—EXAMINER DARBY.

- 2. Apparel.
- 223. Apparel Apparatus.
- 112. Sewing Machines.

DIVISION XXV.—EXAMINER LIGHTFOOT.

- 17. Butchering.
- 233. Centrifugal-Bowl Separators.*
- 83. Mills.
- 130. Thrashing.
- 146. Vegetable Cutters and Crushers.

DIVISION XXVI.—EXAMINER MARINE.

- 171. Electricity—Generation.
- 172. Electricity—Motive Power.

DIVISION XXVII.—EXAMINER GOULD.

- 15. Brushing and Scrubbing.
- 51. Grinding and Polishing.
- 68. Laundry.
- 141. Washing Apparatus.

* See Definitions of Revised Classes.

CLASSES ARRANGED BY EXAMINING DIVISIONS.

DIVISION XXVIII.—EXAMINER BENSON.

123. Internal-Combustion Engines (except subclasses 80, 81, 188, 189, and 190, for which see Division XVIII).*

DIVISION XXIX.—EXAMINER MORRIS.

147. Coopering.*
227. Fire Escapes.
228. Ladders.
108. Roofs.*
157. Wheelwright Machines.*
20. Wooden Buildings.*
143. Wood Sawing.*
142. Wood Turning.*
144. Woodworking*
145. Woodworking Tools.*

DIVISION XXX.—EXAMINER SULLIVAN.

240. Illumination.*
67. Illuminating-Burners.*
158. Liquid and Gaseous Fuel Burners.*
197. Type-writing Machines.*

DIVISION XXXI.—EXAMINER ELY.

195. Alcohol.
203. Ammonia, Water, and Wood Distillation.
202. Charcoal and Coke.
48. Gas. Heating and Illuminating.*
149. Hides, Skins, and Leather.
222. Hydraulic Cement and Lime.
196. Mineral Oils.
87. Oils, Fats, and Glue.

DIVISION XXXII.—EXAMINER BANCROFT.

259. Agitating.
209. Carbonating Beverages.
225. Dispensing Beverages.
221. Dispensing.
53. Domestic Cooking Vessels.
261. Gas and Liquid Contact Apparatus.
257. Heat Exchange.*
41. Ornamentation.*
226. Packaging Liquids.
62. Refrigeration.*

DIVISION XXXIII.—EXAMINER W. A. COWLES.

14. Bridges.*
61. Hydraulic Engineering.
72. Masonry and Concrete Structures.*
189. Metallic Building Structures.*
94. Paving.

DIVISION XXXIV.—EXAMINER SIMPSON.

188. Railway Brakes.
239. Railway-Rails and Joints.
105. Railway Rolling Stock.
104. Railways.
238. Railway-Ties and Fasteners.

DIVISION XXXV.—EXAMINER SHAW.

24. Buckles, Buttons, Clasps, etc.*
40. Card, Picture, and Sign Exhibiting.*
241. Garment Supporters.
132. Toilet.

DIVISION XXXVI.—EXAMINER MORTON.

34. Driers.
33. Geometrical Instruments.*
73. Measuring Instruments.
95. Photography.*

DIVISION XXXVII.—EXAMINER RUCKMAN.

200. Electricity—Circuit Makers and Breakers.
247. Electricity—Conduits.
175. Electricity—General Applications.
176. Electric Lamps.*

DIVISION XXXVIII.—EXAMINER IDE.

119. Animal Husbandry.*
255. Earth Boring.*
43. Fishing and Trapping.
120. Stationery.*
125. Stone Working.
166. Wells.*

* See Definitions of Revised Classes.

CLASSES ARRANGED BY EXAMINING DIVISIONS.

DIVISION XXXIX.—EXAMINER A. W. COWLES.

137. Water Distribution.

DIVISION XL.—EXAMINER GLASCOCK.

- 190. Baggage.*
- 215. Bottles and Jars.
- 194. Check-Controlled Apparatus.*
- 150. Cloth, Leather, and Rubber Receptacles.*
- 232. Deposit and Collection Receptacles.*
- 220. Metallic Shipping and Storing Vessels.
- 224. Package and Article Carriers.*
- 229. Paper Receptacles.*
- 206. Special Receptacles and Packages.*
- 217. Wooden Receptacles.*

DIVISION XLI.—EXAMINER BROWN.

- 213. Railway Draft Appliances.
- 152. Resilient Tires and Wheels.

DIVISION XLII.—EXAMINER DISNEY.

- 173. Electricity—Conductors.
- 191. Electricity—Transmission to Vehicles.*
- 246. Railway Signaling.
- 116. Signals.

DIVISION XLIII.—EXAMINER LANE.

- 4. Baths and Closets.
- 174. Electricity—Medical and Surgical.
- 169. Fire Extinguishers.
- 182. Sewerage.
- 128. Surgery.
- 210. Water Purification.

* See Definitions of Revised Classes.

CLASSES ALPHABETICALLY ARRANGED.

Number.	Class.	Division.	Number.	Class.	Division.
181	Acoustics *.....	23	31	Dairy	2
244	Aeronautics *.....	22	236	Dampers. Automatic	19
259	Agitating	32	32	Dentistry	20
230	Air and gas pumps.....	9	232	Deposit and collection receptacles *.....	40
124	Air-guns, catapults, and targets *.....	22	165	DESIGNS (Division of Trade-Marks and Designs).	
195	Alcohol	31	225	Dispensing beverages.....	32
203	Ammonia, water, and wood distillation	31	221	Dispensing.....	32
102	Ammunition and explosive devices *.....	22	53	Domestic cooking vessels.....	32
119	Animal husbandry *.....	38	34	Driers.....	36
148	Annealing and tempering	3	85	Driven, headed, and screw-threaded fastenings *.....	13
2	Apparel.....	24	255	Earth-boring *.....	38
223	Apparel apparatus.....	24	35	Educational appliances.....	7
86	Arms, projectiles and explosive charges. Making *.....	13	219	Electric heating and rheostats *.....	3
3	Artificial body members *.....	20	200	Electricity—Circuit makers and breakers	37
190	Baggage *.....	40	173	Electricity—Conductors	42
4	Baths and closets	43	247	Electricity—Conduits	37
5	Beds.....	8	171	Electricity—Generation	26
6	Bee culture *.....	2	174	Electricity—Medical and surgical	43
8	Bleaching and dyeing.....	6	172	Electricity—Motive power	26
9	Boats and buoys *.....	22	175	Electricity—General applications	37
10	Bolt, nail, nut, rivet, and screw making *.....	13	191	Electricity—Transmission to vehicles *.....	42
11	Bookbinding.....	5	176	Electric lamps *.....	37
12	Boot and shoe making *.....	11	177	Electric signaling.....	16
36	Boots, shoes, and leggings *.....	11	204	Electrochemistry.....	3
77	Boring and drilling *.....	13	187	Elevators *.....	4
215	Bottles and jars	40	37	Excavating	4
13	Brakes and gins.....	21	52	Explosives.....	6
107	Bread, pastry, and confection making *.....	15	168	Farriery *.....	14
14	Bridges *.....	33	38	Felt and fur.....	21
15	Brushing and scrubbing.....	27	256	Fences *.....	1
24	Buckles, buttons, clasps, etc.*.....	35	71	Fertilizers.....	6
16	Builders' hardware.....	20	42	Firearms *.....	22
17	Butchering	25	227	Fire-escapes.....	29
218	Button, eyelet, and rivet setting *.....	11	169	Fire-extinguishers.....	43
79	Button-making *.....	13	43	Fishing and trapping.....	38
209	Carbonating beverages.....	32	272	Flexible-sheet-securing devices.....	8
19	Carding	21	50	Fluid-pressure regulators *.....	18
40	Card, picture, and sign exhibiting *.....	35	44	Fuel	15
21	Carriages and wagons.....	10	110	Furnaces *.....	19
233	Centrifugal-bowl separators *.....	25	45	Furniture	8
59	Chain, staple, and horseshoe making *.....	13	46	Games and toys.....	7
155	Chairs.....	8	241	Garment-supporters.....	35
202	Charcoal and coke.....	31	261	Gas and liquid contact apparatus	32
194	Check-controlled apparatus *.....	40	48	Gas. Heating and illuminating *.....	31
23	Chemicals.....	6	39	Gates *.....	1
268	Closure-operators.....	1	90	Gear-cutting, milling, and planing *.....	13
26	Cloth-finishing.....	21	33	Geometrical instruments *.....	36
150	Cloth, leather, and rubber receptacles *.....	40	49	Glass *.....	15
192	Clutches	7	51	Grinding and polishing.....	27
91	Coating *.....	15	54	Harness *.....	11
133	Coin-handling *.....	23	55	Harrows and diggers	1
7	Compound tools *.....	14	56	Harvesters	5
273	Continuous-strip feeding	21	257	Heat exchange *.....	32
193	Conveyers.....	4	263	Heating *.....	3
147	Coopering *.....	29	237	Heating systems *.....	19
28	Cordage.....	21	149	Hides, skins, and leather.....	31
156	Curtains, shades, and screens.....	2	57	Hoisting.....	4
30	Cutlery	20	58	Horology *.....	23
164	Cutting and punching sheets and bars *.....	14	222	Hydraulic cement and lime.....	31

* See Definitions of Revised Classes.

CLASSES ALPHABETICALLY ARRANGED.

Number.	Class.	Division.	Number.	Class.	Division.
61	Hydraulic engineering.....	33	18	Plastics *.....	15
138	Hydraulic motors.....	9	97	Plows.....	1
240	Illumination *.....	30	243	Pneumatic despatch *.....	4
67	Illuminating-burners *.....	30	98	Pneumatics.....	2
162	Injectors and ejectors.....	18	99	Preserving.....	6
123	Internal-combustion engines *.....	28	100	Presses.....	2
63	Jewelry *.....	5	101	Printing.....	17
64	Journal-boxes, pulleys, and shafting.....	12	PRINTS AND LABELS (Division of Trade-Marks and Designs).
65	Kitchen and table articles.....	8	103	Pumps.....	9
66	Knitting and netting.....	21	254	Pushing and pulling implements *.....	4
216	Label-pasting and paper-hanging *.....	2	250	Radiant energy *.....	16
228	Ladders.....	29	188	Railway-brakes.....	34
154	Laminated fabric and analogous manufactures *.....	15	213	Railway draft appliances.....	41
68	Laundry.....	27	269	Railway-gates.....	1
69	Leather manufactures *.....	11	258	Railway mail delivery *.....	4
158	Liquid and gaseous fuel burners *.....	30	239	Railway-rails and joints.....	34
134	Liquid coating compositions *.....	6	105	Railway rolling-stock.....	34
122	Liquid heaters and vaporizers *.....	18	104	Railways.....	34
214	Loading and unloading.....	4	246	Railway signaling.....	42
70	Locks and latches.....	20	238	Railway-ties and fasteners.....	34
184	Lubrication *.....	12	234	Recorders *.....	23
74	Machine elements.....	12	62	Refrigeration *.....	32
115	Marine propulsion *.....	22	235	Registers *.....	23
72	Masonry and concrete structures *.....	33	152	Resilient tires and wheels.....	41
198	Matrix-making.....	17	108	Roofs *.....	29
73	Measuring instruments.....	36	109	Safes.....	20
167	Medicines.....	2	111	Seeders and planters.....	1
153	Metal-bending *.....	14	182	Sewerage.....	43
205	Metal-drawing *.....	13	112	Sewing-machines.....	24
78	Metal forging and welding *.....	13	113	Sheet-metal ware. Making *.....	14
22	Metal-founding *.....	3	114	Ships *.....	22
189	Metallic building structures *.....	33	116	Signals.....	42
220	Metallic shipping and storing vessels.....	40	117	Silk.....	21
266	Metallurgical apparatus *.....	3	206	Special receptacles and packages *.....	40
75	Metallurgy.....	3	264	Speed-responsive devices *.....	18
201	Metal-ornamenting *.....	14	118	Spinning *.....	21
80	Metal-rolling *.....	13	267	Spring devices.....	10
76	Metal tools and implements. Making *.....	13	120	Stationary *.....	38
29	Metal-working *.....	13	160	Steam and vacuum pumps.....	18
83	Mills.....	25	121	Steam-engines.....	18
196	Mineral oils.....	31	136	Steam-engine valves.....	18
60	Miscellaneous heat-engine plants *.....	18	125	Stone-working.....	38
185	Motors *.....	7	211	Store furniture.....	8
253	Motors—Fluid *.....	9	186	Store-service *.....	4
170	Motors—Fluid-current *.....	9	126	Stoves and furnaces *.....	19
84	Music.....	5	252	Substance preparation.....	6
1	Nailing and stapling *.....	11	127	Sugar and salt.....	6
163	Needle and pin making *.....	13	248	Supports.....	8
151	Nut and bolt locks *.....	13	128	Surgery.....	43
87	Oils, fats, and glue.....	31	178	Telegraphy *.....	16
88	Optics *.....	7	179	Telephony *.....	16
89	Ordnance *.....	22	135	Tents, canopies, umbrellas, and canes *.....	2
41	Ornamentation *.....	32	130	Threshing.....	25
224	Package and article carriers *.....	40	161	Time controlling mechanism *.....	23
226	Packaging liquids.....	32	131	Tobacco.....	2
129	Paper files and binders *.....	2	132	Toilet.....	35
92	Paper-making and fiber liberation *.....	15	81	Tools *.....	14
93	Paper manufactures *.....	17	TRADE-MARKS (Division of Trade-Marks and Designs).
229	Paper receptacles *.....	40	212	Traversing hoists *.....	4
94	Paving.....	33	47	Trees, plants, and flowers.....	1
95	Photography *.....	36	82	Turning *.....	13
25	Plastic block and earthenware apparatus *.....	15	199	Type-bar making.....	17
106	Plastic compositions *.....	6	197	Type-writing machines *.....	30
207	Plastic metal working *.....	3	27	Undertaking.....	20

* See Definitions of Revised Classes.

CLASSES ALPHABETICALLY ARRANGED.

Number.	Class.	Division.	Number.	Class.	Division.
146	Vegetable cutters and crushers	25	242	Winding and reeling *	21
208	Velocipedes	7	245	Wire fabrics and structure *	14
141	Washing apparatus	27	140	Wire-working *	14
137	Water distribution	39	20	Wooden buildings *	29
210	Water purification	43	217	Wooden receptacles *	40
139	Weaving	21	143	Wood-sawing *	29
166	Wells *	38	142	Wood-turning *	29
157	Wheelwright-machines *	29	144	Woodworking *	29
231	Whips and whip apparatus *	11	145	Woodworking-tools *	29

* See Definitions of Revised Classes.

DEPARTMENTS OF THE USEFUL ARTS.¹

X.—HETEROGENEOUS FUNCTIONS OR EFFECTS.

Means adapted to achieve the purposes named in several of the following departments:

A.—EFFECTING INTELLECTUAL IMPRESSIONS.

Means peculiarly adapted to amuse, instruct, convey or transmit intelligence.

B.—PRODUCING PHYSICAL EFFECTS IN LIVING ORGANISMS.

Means peculiarly adapted to aid in propagating or conserving life or to modify the material of animal or plant organisms.

C.—MODIFYING MATTER.

I. Earth's surface;

II. Fabrication of definitely-shaped products;

III. Modifying the composition or condition of matter; products defined by their ingredients or chemical composition.

Means peculiarly adapted to modify the form, composition, or molecular condition of matter in general.

D.—MOVING MATTER.

Means peculiarly adapted to transport or otherwise modify the position of matter.

E.—CONVERSION OR TRANSMISSION OF ENERGY.

Means peculiarly adapted to convert one form of energy into another or to transmit energy through space.

F.—STRUCTURAL ORGANIZATIONS OR ELEMENTS.

Means peculiarly adapted to exert passive resistance to energy.

¹ Tentative generic divisions, subject to change as revision proceeds.

CLASSES ARRANGED BY DEPARTMENTS.¹

Basis of division.	Classes.	Supplemental divisions. ²
X.—HETEROGENEOUS FUNCTIONS OR EFFECTS.	194. Check-Controlled Apparatus.* 27. Undertaking. 120. Stationery.* 65. Kitchen and Table Articles. 7. Compound Tools.* 81. Tools.*	Systems, check, Cl. 179-6.3+.
A.—EFFECTING INTELLECTUAL IMPRESSIONS.		Classes based on specified functions or effects in which specified tools are used.
Amusement.	46. Games and Toys.	Ornamentation, Cl. 41; Jewelry, Cl. 63; Designs, Cl. 165; Music, Cl. 84; Graphophones, Cl. 88; Acoustics, Cl. 181.
Education.	35. Educational Appliances.	
Determining space relations.	33. Geometrical Instruments.*	Optics, Cl. 88; Sound-locating devices, Cl. 181-26.
Determining duration.	58. Horology.*	Time-computing, Cl. 33-62; Time-balls, Cl. 161-24; Timing mechanism, Cl. 161-15.
Determining energy, volume, or properties of matter.	73. Measuring Instruments.	Seed-testers, Cl. 47-30; Testing instruments, Cl. 88-14; Photometers, Cl. 88-23; Optometers, Cl. 88-20; Actinometers, Cl. 95-10; Egg-testers, Cl. 99-6; Meters, Cl. 171-34; Ore-detectors, Cl. 175-182; Testing, Cl. 175-183; Motors, fluid, Cl. 253.
Communication of information— Control of railway traffic,	246. Railway Signaling.	
Electrical systems,	178. Telegraphy.* 177. Electric Signaling.	Telephony, Cl. 179.
Signaling systems and elements in general—	116. Signals.	Buoys Cl. 9-8; Mechanical telephones, Cl. 181-29; Sound-locating devices, Cl. 181-26; Speaking-tubes, systems, Cl. 181-18; Lanterns, signal, Cl. 240-22. Classes based on specified functions or effects in which specified signals are used.
Counting, totalizing, or computing apparatus,	235. Registers.*	Recording attachments, Cl. 84-68.
Apparatus for inscribing record of movement, etc.	234. Recorders.*	
Display of symbols.	40. Card, Picture, and Sign Exhibiting.* (Trade-Marks; Prints and Labels.)	Bookbinding, Cl. 11; Monuments, Cl. 125-15; Display-cards, Display-forms, Display-racks, Display-stands, Display-trays, etc., Cl. 211.
B.—PRODUCING PHYSICAL EFFECTS IN LIVING ORGANISMS.		
Animals— Specified,	132. Toilet.	Baths and closets, Cl. 4; Brush heads and faces, Cl. 15; Manicure implements, Cl. 30-23; Games and toys, Cl. 46; Combs and brushes, Cl. 174-173; Exercising apparatus, Cl. 174-175.
In general—	6. Bee Culture.*	
Capturing,	43. Fishing and Trapping.	Insect-guards, Cl. 45-15; Trunk-guards, Cl. 47-39; Catching and holding tools, Cl. 119-151+.
Artificial parts for,	3. Artificial Body Members.*	Teeth, Cl. 32-9+; Bridgework, Cl. 32-12+; Canes and sticks, Cl. 135-45+.
Treatment and care of.	174. Electricity—Medical and Surgical. 32. Dentistry. 128. Surgery. 119. Animal Husbandry.*	Biological, Cl. 175-311. Medicines, Cl. 167. Slaughtering, elevating, and suspending, Cl. 17-30; Farriery, Cl. 168; Horse-brushes, Cl. 15-31.
Plants— Gathering,	56. Harvesters.	Fruit-clippers, Cl. 30-24; Potato-diggers, Cl. 55-9; Tree-felling, Cl. 144-34.
Treatment and care of.	47. Trees, Plants, and Flowers.	Pruning implements, Cl. 30-11; Harrows and diggers, Cl. 55; Plows, Cl. 97; Seeders and planters, Cl. 111.
C.—MODIFYING MATTER.		
I. EARTH'S SURFACE— Extracting from,	166. Wells.*	Mining systems, Cl. 37-51; Peat-machines, Cl. 44-3; Potato-diggers, Cl. 55-9+; Mining-machines, Cl. 125-14.
Working and inserting in,	111. Seeders and Planters.	Pipe and cable laying, Cl. 37-53; Transplanters, Cl. 55-18+; Pile-drivers, sinking, Cl. 61-41.
Working.	55. Harrows and Diggers. 97. Plows. 37. Excavating.	Implement, intrenching, Cl. 42-93; Stone-working, Cl. 125. Tunnels, Cl. 61-16+; Earth-boring, Cl. 255.

¹ Tentative grouping of existent classes, subject to change as revision proceeds.

² Titles under this heading are to be considered in connection with the titles opposite them in the column headed "Basis of division." These general references to supplemental classes or subclasses must not be viewed as relieving the investigator of all burden of thought and care in making a search. Specific search notes may be found in the definition supplement of each revised class, and all titles having the same essential words will be found assembled in the alphabetical index.

* See Definitions of Revised Classes.

CLASSES ARRANGED BY DEPARTMENTS.

Basis of division.	Classes.	Supplemental divisions.
C.—MODIFYING MATTER—Con. II. FABRICATION OF DEFINITELY-SHAPED PRODUCTS— Specified manufactures of final utility— Essentially metallic,	113. Sheet-Metal Ware, Making.* 10. Bolt, Nail, Nut, Rivet, and Screw Making.* 59. Chain, Staple, and Horseshoe Making.* 76. Metal Tools and Implements, Making.* 163. Needle and Pin Making.* 93. Paper Manufactures.* 86. Arms, Projectiles, and Explosive Charges, Making.* 79. Button-Making.* 147. Coopering.* 157. Wheelwright-Machines.* 12. Boot and Shoe Making.* 223. Apparel Apparatus. 11. Bookbinding. 231. Whips and Whip Apparatus.*	Caps and cartridges, Cl. 86-10+; Expanded metal, Cl. 164-65+. Special work, Cl. 29-2+; Blanks and processes, Cl. 29-148+; Button-making, metallic, Cl. 79-3+; Arms, projectiles, and explosive charges, making, Cl. 86; Article making or forming, Cl. 140-71+.
Essentially paper, Material in general,		Brush-machines, Cl. 15-7; Brush-trimming machines, Cl. 15-40; Dressing and sorting machines, Cl. 15-45; Mantle-making, Cl. 67-100; Articles and processes, Cl. 69-21; Horse-collar shaping, Cl. 69-3; Heddle-machines, Cl. 139-13; Match-making, Cl. 144-50+; Special-work machines, Cl. 144-2+; Repairing, Cl. 152-23+; Ball-making, Cl. 154-17+; Hose-making, Cl. 154-5+; Tire-making, Cl. 154-9+; Upholstering, Cl. 155-43; Manufacture and repair, Cl. 176-3+.
Ornamental forms or surfaces, Impressing surface design,	41. Ornamentation.* 197. Type-Writing Machines.* 101. Printing. 201. Metal-Ornamenting.*	Sausage-machines, Cl. 17-6; Bread, pastry, and confection making, Cl. 107; Cigar-machines, Cl. 131-5; Capsules, Cl. 167-2. Photography, Cl. 95. Writing-tablets, continuous, manifolding, Cl. 11-36; Manifolding, Cl. 11-23; Surface type, Cl. 41-17+; Etching, Cl. 41-9; Phototypography, Cl. 95-4.5; Pens, Fountain-pens, Penholders, Pencils, Cl. 120; Recorders, Cl. 234. Machines for covering, Cl. 173-244. Rolling, Cl. 18-11+; Paper manufactures, Cl. 93; Label-pasting and paper-hanging, Cl. 216.
Fabricated materials,	28. Cordage. 154. Laminated Fabric and Analogous Manufactures.*	Classes 28, 139, 242; Wire-twisters, Cl. 56-88. Classes 10, 22, 59, 76, 78, 80, 82, 86, 90, 113, 140, 153, 164, 199, 201, 205, 207.
Working specified materials—	92. Paper-Making and Fiber Liberation.* 69. Leather Manufactures.* 38. Felt and Fur. 26. Cloth-Finishing. 17. Butchering. 140. Wire-Working.* 29. Metal-Working.* 145. Woodworking-Tools.* 144. Woodworking.* 125. Stone-Working. 49. Glass.* 131. Tobacco. 117. Silk.	Penel-sharpeners, Cl. 120-85+. Hermetic sealers, Cl. 220-97.
Specified operations,	66. Knitting and Netting. 139. Weaving. 118. Spinning.* 19. Carding.	Cord-knotters, Cl. 56-83. Fabric-making, Cl. 140-3. Cordage, Cl. 28. Brakes and gins, Cl. 13. Constructive apparatus, Cl. 14-23; Lathing, Cl. 20-13; Assembling, Cl. 29-84+; Binders, Cl. 56-35; Self-binders, Cl. 56-124; Brick-laying-machines, Cl. 72-129; Welding, Cl. 78; Cartridge-packing, Cl. 86-14; Wrapping-machines, Cl. 93-2+; Bunching and banding, Cl. 93-93; Baling, Cl. 100; Stacking and packing apparatus, Cl. 107-45+; Slate and shingle laying, Cl. 108-9; Soldering, Cl. 113; Bottle-capping, Cl. 113-24; Cigar-bundling, Cl. 131-18; Packing, Cl. 131-11; Applying wire, Cl. 140-93+; Bunching-machines, Cl. 146-16; Wheelwright-machines, Cl. 157; Assorting and packaging, Cl. 163-8; Hermetic sealers, Cl. 220-97; Packaging liquids, Cl. 226; Wire-drawing, Cl. 247-23+.
Shaping by accretion— Uniting by adhesion,	216. Label-Pasting and Paper-Hanging.* 91. Coating.*	Bookbinding, Cl. 11; Vulcanizing caoutchouc, Cl. 18-53; Paper manufactures, Cl. 93; Cigar-banding, Cl. 131-61; Vence-presses, Cl. 144-281+; Glue-applying and pressing apparatus, Cl. 144-280+; Laminated fabrics, etc., Cl. 154. Cement-applying devices, Cl. 12-80; Fountain-brushes, Cl. 15-46+; Starching-machines, Cl. 68-28; Plastering, Cl. 72-123; Wood saturation, Cl. 99-12; Fountain-pens, Cl. 120-42; Match-making, Cl. 144-50+.
Uniting by sewing, Uniting by driven penetrating fasteners, Shaping by distortion— Specified manufactures,	112 Sewing-Machines. 218. Button, Eyelet, and Rivet Setting.* 1. Nailing and Stapling.* 107. Bread, Pastry, and Confection Making.* 25. Plastic Block and Earthenware Apparatus.* 198. Matrix-Making. 199. Type-Bar Making.	Riveting, Cl. 78-40+; Eyeletting, Cl. 93-90. Sausage-machines, Cl. 17-6; Confectionery, Cl. 127-4; Molds and carriages, Cl. 127-12; Capsule-machines, Cl. 128-32. Dies, Cl. 76-107. Making and setting, Cl. 101-200.

* See Definitions of Revised Classes.

CLASSES ARRANGED BY DEPARTMENTS.

Basis of division.	Classes.	Supplemental divisions.
C.—MODIFYING MATTER—Con. II. FABRICATION OF DEFINITELY-SHAPED PRODUCTS—Continued. Shaping by distortion—Contd. Essentially metals— Specified operations,	22. Metal-Founding.* 80. Metal-Rolling.* 78. Metal Forging and Welding.* 205. Metal-Drawing.* 153. Metal-Bending.*	Casting, Cl. 49-39. Rolling, Cl. 49-33. Metal heating and working, Cl. 219-1+.
In general,	207. Plastic Metal Working.*	Ironing-machines, Cl. 68-9; Bending, Cl. 81-13; Calenders, Cl. 92-71+; Folding, Cl. 93-84; Folders, Cl. 101-43; Die-shaping, Cl. 113-38+; Spinning, Cl. 113-52+; Wire-straightening, Cl. 140-147; Wire-twisting, Cl. 140-149+; Wood-bending, Cl. 144-286+.
Plastic substances in general,	18. Plastics.*	Butter workers and molds, Cl. 31-28; Implements, Cl. 72-128+; Presses, Cl. 100.
Cutting—	142. Wood-Turning.* 82. Turning.* 143. Wood-Sawing.* 90. Gear-Cutting, Milling, and Planing.* 255. Earth-Boring.* 77. Boring and Drilling.*	Spinning, Cl. 113-52+; Turning and smoothing, Cl. 181-15. Combined machines, Cl. 29-33+; Cutters, Cl. 29-98+; Woodworking, Cl. 144; Woodworking-tools, Cl. 145. Sawing, Cl. 29-67+; Blank-sawing, Cl. 79-15+; Handsaws, Cl. 145-31+. Filing, Cl. 29-76+; Metal, curved surfaces, Cl. 51-4; Skiving and splitting, Cl. 69-91; Helical tools, Cl. 149-16; Rotary tools, Cl. 149-15. Drilling, Cl. 79-11+; Steam-boiler and flue scrapers, Cl. 83-64; Boring, Cl. 144-92+; Augers, Cl. 145-116+; Bit-frames, Cl. 145-60.5+; Bit-stocks, Cl. 145-66+.
Shearing,	164. Cutting and Punching Sheets and Bars.* 30. Cutlery.	Meat-cutters, Cl. 17-16+; Cutters, Cl. 25-10+; Butter-cutters, Cl. 31-65; Cheese-cutters, Cl. 31-67+; Harvesters, Cl. 56; Cutting apparatus, Cl. 107-20+; Tobacco-cutters, Cigar and cigarette cutters, Cl. 131; Vegetable cutters and crushers, Cl. 146. Compound tools, Cl. 7; Bayonets, Cl. 42-86; Pipe and rod cutters, Cl. 81-183+; Erasers, knife, Cl. 120-39; Soarificators and lancets, Cl. 128-23; Woodworking-tools, Cl. 145; Buttonholes, Cl. 164-1+; Implements, Cl. 164-80+, 119+.
Abrading or rubbing.	51. Grinding and Polishing. 15. Brushing and Scrubbing.	Saw making, sharpening, and gumming, Cl. 76; Surfacing, Cl. 79-7+; Erasers, rubber, Cl. 120-40. Napping, Cl. 26-4; Cleaning, Cl. 42-91; Pipe-cleaners, Cl. 131-12; Razor-cleaners, Cl. 132-29; Powder-puffs, Cl. 132-28.
III. MODIFYING THE COMPOSITION OR CONDITION OF MATTER, AND PRODUCTS DEFINED BY THEIR INGREDIENTS OR CHEMICAL COMPOSITION— Substances characterized by use or effect and their manufacture or treatment,	167. Medicines. 71. Fertilizers. 52. Explosives. 48. Gas, Heating and Illuminating.* 44. Fuel.	Dairy, Cl. 31; Preparing grain, Cl. 83-27; Food compounds, Cl. 99-13; Panification, Cl. 99-10; Tobacco, Cl. 131; Beverages, Cl. 209-7. Ammunition and explosive devices, Cl. 102; Signals, detonating, Cl. 246. Metalloids, Cl. 23-10; Carbonating beverages, Cl. 209. Fire-extinguishing compounds, Cl. 23-5; Fluid oomponents, Cl. 60-40; Candies, Cl. 67-22; Pyrotechnics, Cl. 102-20; Charcoal and ooke, Cl. 202.
Substances characterized by their constitution and their manufacture or treatment,	31. Dairy. 149. Hides, Skins, and Leather. 87. Oils, Fats, and Glue. 195. Alcohol. 127. Sugar and Salt. 196. Mineral Oils. 202. Charcoal and Coke. 222. Hydraulic Cement and Lime. 75. Metallurgy. 148. Annealing and Tempering.	Plastic processes, Cl. 18-47.5+; Processes, Cl. 25-154+; Glass, Cl. 49; Paper-making and fiber liberation, Cl. 92; Wire, lubricating, Cl. 205-19.
Substances characterized by physical properties and their manufacture or treatment,	134. Liquid Coating Compositions.* 106. Plastic Compositions.*	Dyes, Cl. 8-6; Adhesives, Cl. 87-17.
Substances resulting from chemical reaction and their manufacture or treatment,	23. Chemicals.	Slates, Cl. 35-10; Blackboards, Cl. 35-15; Abrading materials and tools, Cl. 51-1; Compositions, Cl. 64-19; Materials for feeding oils, Cl. 64-46; Mantle compositions, Cl. 67-99; Laundries, Cl. 68-1; Electrode compositions, Cl. 173-133+; Filament and glower compositions, Cl. 176-127+; Resistance elements, Cl. 219-73; Compositions, Cl. 219-76.
Substances in general,	252. Substance Preparation.	Carbon dyes, Cl. 8-1; Dyes, Cl. 8-6; Mordants, Cl. 8-13; Nitro compounds, Cl. 52-3; Pigments, Cl. 134-58. Boiler compositions, Cl. 210-22; Ornamentation, chemical, Cl. 41-41+.

* See Definitions of Revised Classes.

CLASSES ARRANGED BY DEPARTMENTS.

Basis of division.	Classes.	Supplemental divisions.
C.—MODIFYING MATTER—Con. III. MODIFYING THE COMPOSITION OR CONDITION OF MATTER, ETC.—Continued. Kind of treatment, Kind of energy applied— Radiant, Electric, Apparatus— For treating metalliferous substances, Heat-generators plus heat-exchangers, Heat-generators plus holders for materials or bodies— Closed-chamber liquid-heaters, including steam-bollers, Household stoves, etc., For heating material in general, For reducing temperature, For exchanging heat between fluids or other bodies of different temperatures, For combustion of fuel, Mechanical comminuting, disintegrating, or fracturing, Washing and renovating, Separating, Treating solids with gases to remove moisture, Treating liquids with gases in general, Agitating fluent or particulate matter.	8. Bleaching and Dyeing. 209. Carbonating Beverages. 99. Preserving. 203. Ammonia, Water, and Wood Distillation. 95. Photography.* 204. Electrochemistry. 266. Metallurgical Apparatus.* 237. Heating Systems.* 122. Liquid Heaters and Vaporizers.* 126. Stoves and Furnaces.* 53. Domestic Cooking Vessels. 263. Heating.* 62. Refrigeration.* 257. Heat Exchange.* 67. Illuminating-Burners.* 158. Liquid and Gaseous Fuel Burners.* 110. Furnaces.* 13. Brakes and Gins. 130. Threshing. 146. Vegetable Cutters and Crushers. 83. Mills. 68. Laundry. 141. Washing Apparatus. 210. Water Purification. 233. Centrifugal-Bowl Separators.* 34. Driers. 261. Gas and Liquid Contact Apparatus. 259. Agitating.	Embalming, Cl. 27-4; Liquid sterilizers, Cl. 126-272; Medicines, Cl. 167; Water purification, Cl. 210; Hermetic sealers, Cl. 220-97. Oils, fats, and glue, Cl. 87; Stills, Cl. 195-12; Stills, Cl. 196-3. Electricity, medical and surgical, Cl. 174; Biological, Cl. 175-311. Stills 195-12; Stills 196-3; ammonia, water, and wood distillation, Cl. 203. Scalding and singeing, Cl. 17-7; Kilns, Cl. 25-132; Singeing, Cl. 26-14; Driers, Cl. 34; Annealing-furnaces, Cl. 49-46; Heating apparatus, Cl. 49-53; Bakers' ovens, Cl. 107-56; Thawing, Cl. 137-72; Ovens, Cl. 202-44; Kilns, Cl. 202-10; Electric furnaces, Cl. 204-64; Heaters, Cl. 219-194; Metal-heating, Cl. 219-114; Metal heating and working, Cl. 219-14; Kilns, Cl. 222-3. Gas and liquid contact apparatus, Cl. 261. Matches, Cl. 52-5; Pyrotechnics, Cl. 102-20+. Fire-kindlers, Cl. 44-2. Leaf-treating and stemming, Cl. 131-57; Stem-crushing, Cl. 131-58. Expressing, Cl. 100. Meat-cutters, Cl. 17; Comminuting metal, Cl. 29-4.5; Metal-breakers, Cl. 29-66; Granulating, Cl. 131-7; Scrap-cutting, Cl. 164-106; Agitating, Cl. 259. Coating, Cl. 91; Calenders, Cl. 92-71; Garment-formers, Cl. 223-17; Hat-machines, ironers, Cl. 223-28. Bleaching and dyeing, Cl. 8; Washing-machines, Cl. 68-154; Extracting oils, Cl. 87-6; Coating, Cl. 91; Pickling and swelling, Cl. 148-42; Tumbling-drums, Cl. 149-11. Dust-collectors, Cl. 83-47; Separators, Cl. 83-34; Steam-separators, Cl. 83-90; Automatic assorting, miscellaneous, Cl. 83; Sifters and screens, Cl. 83-56; Expressing, Cl. 100-35; Spark-arresters, Cl. 110-116; Smoke-purifiers, Cl. 110-83; Assorters, Cl. 133-3. Carbonating beverages, Cl. 209; Gas and liquid contact, Cl. 257-52; Carbureters, Cl. 48-144+. Oyster-dredges, Cl. 43-11; Oyster rakes and tongs, Cl. 43-12; Combined rakes and tadders, Cl. 56-3; Horse-rakes, Cl. 56-65; Revolving horse-rakes, Cl. 56-80; Manure-forks, Cl. 56-20; Bunchers and windrowers, Cl. 56-128; Pilers, Cl. 214-6. Handles, Cl. 16-104; Buttoners, Cl. 24-40; Shell-extracting, Cl. 42-954; Shovels, Cl. 55-14; Rakes, Cl. 55-104; Hand-rakes, Cl. 56-12; Lifters, Cl. 57-1094; Cake-turners, Fruit-lifters, Ladies, Jar-lifters, Plate-lifters, Table-tongs, Scoops, Stopper-extractors, Cl. 65; Pliers and tongs, Wrenches, Vises, Cl. 81; Bakers' peels, Cl. 107-67; Pen-extractors, Cl. 120-97; Handles, Cl. 126-322; Fire-tongs, Cl. 126-321; Lid-lifters, Cl. 126-323; Boot-holders, horns, and jacks, Cl. 132-30; Screw-drivers, Cl. 145-80; Cantedogs, Cl. 145-22; Handles, Cl. 145-61; Saw-handles, Cl. 145-108.
D.—MOVING MATTER.		

* See Definitions of Revised Classes.

CLASSES ARRANGED BY DEPARTMENTS.

Basis of division.	Classes.	Supplemental divisions.
D.—MOVING MATTER—Contd. Specified kinds of bodies—		
To or from vehicles in motion. For a specified purpose.	133. Coin-Handling.* 258. Railway Mail Delivery.* 227. Fire-Escapes. 169. Fire-Extinguishers.	Toy money-boxes, Cl. 46-36; Check-controlled apparatus, Cl. 194; Deposit and collection receptacles, Cl. 232; Cash-registers, Cl. 235. Ladders, Cl. 228.
Effecting contact with fluid— For a specified purpose.	184. Lubrication.*	Bleaching and Dyeing, Cl. 8; Driers, Cl. 34; Journal-boxes, lubricating, Cl. 64; Coating, Cl. 91; Lubricators, Cl. 121-115; Lubricators, Cl. 123-196; Washing apparatus, Cl. 141; Fire-extinguishers, Cl. 169; Gas and liquid contact apparatus, Cl. 261.
Charging or discharging.	226. Packaging Liquids. 225. Dispensing Beverages. 221. Dispensing. 214. Loading and Unloading.	Powder-dusters, Cl. 43-14; Condiment-holders, Cl. 65-4; Syringes, Cl. 128-25; Irrigating and sprinkling, Cl. 137-14+; Cabinets, delivering, Cl. 211-8; Deposit and collection receptacles, Cl. 232. Hay-loaders, Cl. 56-61; Sanding devices, Cl. 105-60; Broadcast seeders, Cl. 111-1; Fertilizer-distributors, Cl. 111-54; Oil-distributors, Cl. 114-232; Feeding devices, Cl. 119-51; Deliverers, Cl. 133-4; Irrigating and sprinkling, Cl. 137-33.
Fluent masses— Waste, Changing air of chambers,	4. Baths and Closets. 98. Pneumatics.	Water-closet and sewer ventilation, Cl. 4-21; ventilating, Cl. 114-211; Stove-hoods, Cl. 126-299; Cutter-hoods and dust-conveyers, Cl. 144-252.
Flow-compelling,	160. Steam and Vacuum Pumps. 162. Injectors and Ejectors. 230. Air and Gas Pumps. 103. Pumps.	Accessories, Cl. 123-198; Inflating, Cl. 152-11. Milking-machines, Cl. 31-70; Cream-pumps, Cl. 31-27; Bilge-discharge, Cl. 114-133; Atomizers, Cl. 128-2; Lubricators, Cl. 184; Pumps, Cl. 253.
Flow-controlling.	182. Sewerage. 137. Water Distribution.	Sap-spouts, Cl. 47-11; Distribution, Cl. 48-190; Skids, Cl. 57-18; Canals, Cl. 61-4; Chutes, Cl. 61-5; Drains, Cl. 61-9; Fuel-feeding, Cl. 158-36; Burners, liquid fuel, Cl. 158-73; Fire-extinguishers, Cl. 169; Chutes, Cl. 193-29+; Spouts, Cl. 193-22; Funnels, Cl. 226-33; Chutes, Cl. 227-7; Heating systems, Cl. 237.
Throwing instruments.	50. Fluid-Pressure Regulators.* 236. Dampers, Automatic. 42. Firearms.* 89. Ordnance.* 102. Ammunition and Explosive Devices.* 124. Air-Guns, Catapults, and Targets.*	Dampers, Cl. 126-285; Valves, Cl. 152-12; Valve-actuating mechanism, Cl. 161-7; Automatic valves, Cl. 169-6. Electro-magnetic guns, Cl. 172-285. Explosives, Cl. 52; Signals, detonating, Cl. 246. Aerial projectiles, Cl. 46-59.
Forwarding apparatus.	273. Continuous-Strip Feeding.	Stock and blank feeders, Cl. 29-58; Feeding, Cl. 101-5; Wire-feeding, Cl. 140-125; Conveyers, Reciprocating, Screw, Trimmers—Cl. 193; Winding and reeling, Cl. 222; Wire-drawing, Cl. 247-23+.
Restricted-range carriers.	212. Traversing Hoists.* 193. Conveyers. 187. Elevators.* 57. Hoisting.	Inclined plane, Cl. 104-8.
Means for exerting a push or a pull, (including jacks and blocks and tackle.)	254. Pushing and Pulling Implements.*	Hoisting and lowering, Cl. 9-22; Burial apparatus, raising and lowering, Cl. 27-6; Assembling, Cl. 29-84+.
Coiling or winding flexible lengths.	242. Winding and Reeling.*	Carpet-stretchers, Cl. 45-80; Presses, Cl. 100.
Unrestricted-range carriers— Air vehicles, Water vehicles, Land vehicles— Transportation systems,	244. Aeronautics.* 114. Shlps.* 9. Boats and Buoy.* 243. Pneumatic Despatch.* 186. Store-Service.* 104. Railways.	Rollers, Cl. 156-29. Dooys, Cl. 43-2; Floats, Cl. 43-4.
Vehicles—	105. Railway Rolling-Stock. 208. Velocipedes. 21. Carriages and Wagons.	Railway signaling, Cl. 246.
Parts of and attachments.	152. Resilient Tires and Wheels. 213. Railway Draft Appliances.	Casters, Cl. 16-4; Snow-shoes, Cl. 46-67; Skates, Cl. 46-50; Skate-wheels, Cl. 46-52; Grain wheels and casters, Cl. 56-31.
Vehicle or animal attachments.	224. Package and Article Carriers.*	Clevises, Cl. 97-4.
E.—CONVERSION OR TRANSMISSION OF ENERGY.		Ambulances and stretchers, Cl. 21-80; Hand-barrows, Cl. 21-88; Hods, Cl. 72-134; Hawks, Cl. 72-35; Baggage, Cl. 190.
Transmission from bodies moving in response to variations in rate of motion.	264. Speed-Responsive Devices.*	
Control of transmission by clocks or other timed mechanism.	161. Time Controlling Mechanism.*	Recorders, time, Cl. 234-36; Signals, time, Cl. 246-42.

* See Definitions of Revised Classes.

CLASSES ARRANGED BY DEPARTMENTS.

Basis of division.	Classes.	Supplemental divisions.
E.—CONVERSION OR TRANSMISSION OF ENERGY— Continued. Energy in general for specified use—	115. Marine Propulsion.* 268. Closure-Operators.	
Pressure or impact devices.	100. Presses.	Transom-lifters, Cl. 16-28; Shutter-bowers, Cl. 16-22; Gates, Cl. 39; Skylights, operating devices, Cl. 108-31; Doors, operators, Cl. 110-176; Bulkheads and doors, Cl. 114-116; Thermally-controlled devices, Cl. 189-45; Jails, Cl. 189-5; Railway-gates, Cl. 189-45; Wringers, Cl. 68-32; Power hammers and presses, Cl. 78-14+; Veneer-presses, Cl. 144-281; Pushing and pulling implements, Cl. 254.
Sound production, transmission, or modification— Reproduction by electric undulations,	179. Telephony.*	Balls and bats, Cl. 46-4; Pile-drivers, Cl. 61-13; Stamps, Cl. 83-57; Road-rammers, Cl. 94-4; Hammers, Cl. 121-19+; Hammers, Cl. 123-7; Hammers, Cl. 145-29; Mallets, Cl. 145-36; Whips, Cl. 231-2+.
Production of rhythmic combinations of sound.	84. Music.	Toys, sounding, Cl. 46-46; Signals, Cl. 116; Electric signaling, Cl. 177.
Recording, reproduction, transmission, or modification.	181. Acoustics.*	
Conversion to or transmission of— Light— Production plus transmission and modification of artificial light— Deflection or modification.	240. Illumination.* 88. Optics.*	Buoys, illuminated, Cl. 9-8.3; Signs, illuminated, Cl. 40-130; Illuminating-burners, Cl. 67; Electric lamps, Cl. 176. Photography, Cl. 95.
Conversion to or from and transmission of— Radiant energy.	250. Radiant Energy.*	
Conversion to or from or transmission of— Electricity— Conversion to mechanical motion,	175. Electricity—General Applications. 172. Electricity—Motive Power.	Resistance elements, Cl. 219; Condensers, 250.
Conversion of mechanical, heat, or other energy (except chemical reaction) to electrical,	171. Electricity—Generation.	Lamp-dimmer systems, Cl. 175-312; Systems, display, Cl. 177-346.
Conversion to heat or light,	176. Electric Lamps.*	Sparkers, Cl. 123-150; Lighting mechanism, electric, Cl. 161-12; Electrodes, Cl. 174-89; Vaporizers, Cl. 174-170; Igniting devices, Cl. 175-91; Electric furnaces, Cl. 204-64.
Transmission— To or from vehicles,	219. Electric Heating and Rheostats.*	
Elements.	191. Electricity—Transmission to Vehicles.* 173. Electricity—Conductors. 247. Electricity—Conduits. 200. Electricity—Circuit Makers and Breakers.	Resistance elements, Cl. 219; Condensers, Cl. 250. Switches, Cl. 175-279+; Switchboards, Cl. 175-298; Track-circuit controlled, Cl. 246-581
Conversion of heat or energy of fluids into mechanical motion— Heated fluid— Expansible-chamber type.	60. Miscellaneous Heat-Engine Plants.* 123. Internal-Combustion Engines.* 121. Steam-Engines. 136. Steam-Engine Valves.	Automatic dampers, Cl. 236.
Fluid-pressure motors— Expansible-chamber type,	138. Hydraulic Motors.	Motors, fluid, Cl. 253.
Free natural-current motors,	170. Motors—Fluid-Current.*	Pumps, Cl. 103.
Fluid-motors in general, including turbines.	253. Motors—Fluid.*	Steam-engines, Cl. 121; Air and gas pumps, Cl. 230.
Spring, weight, animal, and other motors.	185. Motors.*	Horology, Cl. 58.
Motion-transmitting elements.	74. Machine Elements. 188. Railway-Brakes. 192. Clutches. 64. Journal-Boxes, Pulleys, and Shafting.	Brakes, Cl. 21-8+. Machine-chucks and tool-sockets, Cl. 29-107+; Mandrels, Cl. 82-43+; Socket-fastenings, Cl. 145-83+; Lubrication, Cl. 184; Chucks, Cl. 255-55+.
F.—STRUCTURAL ORGANIZATIONS OR ELEMENTS. Animal wear.	36. Boots, Shoes, and Leggings.* 2. Apparel. 54. Harness.* 168. Farriery.*	Chemical energy, classed under "Modifying Matter, C II."
Marine static.	61. Hydraulic Engineering.	Snow-shoes, Cl. 46-67; Skates, Cl. 46-50. Shields, Cl. 89-36; Bandages, Cl. 128-3+. Garment-supporters, Cl. 241. Restraining devices, Cl. 119-96.

* See Definitions of Revised Classes.

CLASSES ARRANGED BY DEPARTMENTS.

Basis of division.	Classes.	Supplemental divisions.
F.—STRUCTURAL ORGANIZATIONS OR ELEMENTS— Continued. Houses and other edifices of final utility and elements of them.	20. Wooden Buildings.* 189. Metallic Building Structures.* 72. Masonry and Concrete Structures.* 135. Tents, Canopies, Umbrellas, and Canes.* 14. Bridges.* 108. Roofs.* 256. Fences.* 269. Railway-Gates. 39. Gates.*	Cars, Cl. 105-5+; Ships, Cl. 114; Stock-cars, Cl. 119-7+; Confining and housing, Cl. 119-15+; Granaries and bins, Cl. 130-14. Paving, Cl. 94; Smoke-stacks, Cl. 110-184; Monuments, Cl. 125-15. Attachments, Cl. 5-41; Awnings, Cl. 156-15. Gangways, Cl. 119-82. Stays and props, Cl. 47-31.
Roads or ways and elements of them.	239. Railway-Rails and Joints. 238. Railway-Ties and Fasteners. 94. Paving.	Railways, Cl. 104.
Containers or holders.	232. Deposit and Collection Receptacles.* 109. Safes. 190. Baggage.* 206. Special Receptacles and Packages.* 129. Paper Files and Binders.* 215. Bottles and Jars. 220. Metallic Shipping and Storing Vessels. 217. Wooden Receptacles.* 229. Paper Receptacles.* 150. Cloth, Leather, and Rubber Receptacles.*	Cabinets, delivering, Cl. 211-8. Package and article carriers, Cl. 224. Packages, Cl. 1-56; Bales and bale-covers, Cl. 100-14; Scholars' companions, Cl. 120-23; Toilet-cases, Cl. 132-11; Shaving-cups, Cl. 132-15; Packages, Cl. 133-9+; Receptacles, Cl. 133-11+; Work-boxes, Cl. 223-33; Special packages, Cl. 242-159. Bookbinding, Cl. 11; Paper-clips, Paper-fasteners, Cl. 24-66, 67. Flower-pots, Cl. 47-19; Lawn-vases, Cl. 47-24; Cups, pitchers, etc., Cl. 65; Inkstands, Cl. 120-57. Baths and closets, Cl. 4; Pails and strainers, Cl. 31-14; Milk-cans, Cl. 31-75; Sap-buckets, Cl. 47-29; Domestic cooking vessels, Cl. 53; Wash-boilers, Cl. 68-30; Wash-tubs, Cl. 68-31; Tanks, Cl. 137-21+; Canteens and flasks, Cl. 221-93.
Supports— Specified types,	5. Beds. 155. Chairs. 211. Store Furniture. 45. Furniture. 228. Ladders. 248. Supports.	Ambulances and stretchers, Cl. 21-80; Cars, sleeping, Cl. 104-23+; Berths, Cl. 114-192+. Seats, Cl. 21-42; Milk-stools, Cl. 31-13; Seats, Cl. 56-24. Racks or stands, Cl. 34-26; Dish-stands, Cl. 65-61; Racks and rests, Cl. 65-65; Clothes-driers, Cl. 68-24; Pen-racks, Cl. 120-108; Tobacco-hangers, Cl. 131-21. Furniture, Cl. 114-188; Copy-holders, Cl. 120-28. Fire-escapes, Cl. 227. Biers, Cl. 27-1; Work-holders, Cl. 29-89; Rests, Cl. 42-94; Plant-stands, Cl. 47-12; Work-benches, Cl. 68-45; Hand and arm rests, Cl. 120-53+; Stove-shelves, Cl. 128-372; Work-holding stands, Cl. 144-288; Work-benches, Cl. 144-286; Supports and hangers, Cl. 176-251. Screens, Cl. 45-105; Fenders, Cl. 126-201; Heat screens, Cl. 263-50. Trimmings, Cl. 2-187+; Ornamental forms, Cl. 41-10+; Surface type, Cl. 41-17+; Trimmings, Cl. 54-75. Vises, Cl. 81-17+. Clamps, Cl. 144-289+. Clevises, Cl. 97-4; Railway draft appliances, Cl. 213. Hat-fasteners, Cl. 132-28. Fabric-stretching frames, Cl. 45-24+.
In general.		
Light or air shields.		
Ornamental objects.	63. Jewelry.* 165. Designs.	
Securing devices—		
Specified use,	241. Garment-Supporters. 272. Flexible-Sheet-Securing Devices.	
General use.	24. Buckles, Buttons, Clasps, Etc.* 70. Locks and Latches. 85. Driven, Headed, and Screw-Threaded Fastenings.* 151. Nut and Bolt Locks.*	Book-leaf holders and markers, Cl. 11-12; Key-holders, Cl. 59-96; Links, detachable, Cl. 59-84; Bale-band tighteners, Cl. 100-15; Anchors, Cl. 114-206; Land-anchors, Cl. 189-90+; Hoops, tighteners, Cl. 217-94. Bolts, Cl. 16-2; Carpet-fasteners, Cl. 16-3; Door-securers, Cl. 16-8; Sash-fasteners, Cl. 16-18; Window and door buttons, Cl. 16-30. Stays, driving, Cl. 217-70+.
Varied metallic parts for structural organizations.	16. Builders' Hardware.	Riveted joints, Cl. 78-54; Pipe-couplings, Cl. 137-188; all classes containing "structural organizations."
Elastic elements.	267. Spring Devices.	
Fabricated material.	245. Wire Fabrics and Structure.*	Cords and ropes, Cl. 28-5; Metal-stock, Cl. 29-180+; Fabrics, Cl. 38-7; Chains, Cl. 59-78+; Fabrics, Cl. 66-4; Special paper-stock, Cl. 92-3; Tubes, Cl. 93-94; Silk, Cl. 117-5; Tuoes, Cl. 137-6; Mains and pipes, Cl. 137-70+; Fabrics, Cl. 139-9; Fabrics, Cl. 154-46+.

* See Definitions of Revised Classes.

COPYRIGHTS AND TRADE-MARKS.

PRINTS AND LABELS.

Not classified, but arranged in chronological order and preserved for reference in the Record Room.

TRADE-MARKS.

Classification of Merchandise.

1. Raw or partly-prepared materials.
2. Receptacles.
3. Baggage, horse equipments, portfolios, and pocket-books.
4. Abrasive, detergent, and polishing materials.
5. Adhesives.
6. Chemicals, medicines, and pharmaceutical preparations.
7. Cordage.
8. Smokers' articles, not including tobacco products.
9. Explosives, firearms, equipments, and projectiles.
10. Fertilizers.
11. Inks and inking materials.
12. Construction materials.
13. Hardware and plumbing and steam-fitting supplies.
14. Metals and metal castings and forgings.
15. Oils and greases.
16. Paints and painters' materials.
17. Tobacco products.
19. Vehicles, not including engines.
20. Linoleum and oiled cloth.
21. Electrical apparatus, machines, and supplies.
22. Games, toys, and sporting goods.
23. Cutlery, machinery, and tools, and parts thereof.
24. Laundry appliances and machines.
25. Locks and safes.
26. Measuring and scientific appliances.
27. Horological instruments.
28. Jewelry and precious-metal ware.
29. Brooms, brushes, and dusters.
30. Crockery, earthenware, and porcelain.
31. Filters and refrigerators.
32. Furniture and upholstery.
33. Glassware.
34. Heating, lighting, and ventilating apparatus, not including electrical apparatus.
35. Belting, hose, machinery packing, and non-metallic tires.
36. Musical instruments and supplies.
37. Paper and stationery.
38. Prints and publications.
39. Clothing.
40. Fancy goods, furnishings, and notions.
41. Canes, parasols, and umbrellas.
42. Knitted, netted, and textile fabrics.
43. Thread and yarn.
44. Dental, medical, and surgical appliances.
45. Beverages, non-alcoholic.
46. Foods and ingredients of foods.
47. Wines.
48. Malt extracts and liquors.
49. Distilled alcoholic liquors.
50. Merchandise not otherwise classified.

CLASSES AND SUBCLASS SCHEDULES.

1.—NAILING AND STAPLING.*

43. Lath and shingle nailing.
44. Glaziers' point-setters.
- Machines—**
- Book—
7. Staple forming and setting,
8. Staple-setting,
- Box—**
14. Assembling and nailing,
9. Nail forming and driving,
11. Staple forming and setting—
12. Sheet-metal,
10. Nail-driving—
16. Nail-feeding,
15. Tables,
13. Staple-setting,
- Shoe—**
33. Heel pressing and loading,
34. Heel-plate attaching,
32. Heel-nailing—
35. Cross-head and turret,
36. Cross-head,
37. Laterally-adjustable driver-block,
38. Multiple rotary heel-support,
39. Nail-feeding,
25. Wire inserting and cutting—
26. Screw,
27. Wire-nailforming and driving—
28. Direct wire-feed,
29. Pivoted nail-carrier,
30. Reciprocating nail-carrier,
31. Rotary nail-carrier,
- Strip—**
22. Nail,
23. Peg,
24. Tack,
- 24.5. Strips,
20. Staple forming and setting,
19. Nail-driving—
18. Magazine,
21. Staple-setting,
41. Work-supports,
- Blind slat and rod—
54. Staple forming and setting,
55. Staple-setting,
40. Packet-looping,
2. Staple forming and setting,
1. Nail-driving—
6. Nail-feeding,
5. Boxes,
4. Staple-setting—
3. Magazine,
45. Magazine-hammers,
- Implements—**
- 45.5. Fabric-gripping—
- 45.6. Magazine,
51. Wire-nail forming and driving,
48. Staple forming and setting,
- Strip—**
52. Nail and peg,
53. Tack,
47. Nail-driving—
46. Magazine,
50. Staple-setting—
49. Magazine.
56. Packages.

2.—APPAREL.

- Body-garments—**
54. Aprons,
34. Armpit-shields,
58. Button-strips,
57. Buttonhole-strips,
59. Chest-protectors,
60. Cloaks,
61. Coats—
62. Collars,
53. Hangers,
63. Shape-retainers,
64. Sleeve-closures,
65. Ventilated,
66. Collarettes,

2.—APPAREL—Continued.

- Body-garments—Continued.**
67. Collars—
68. Cape,
69. Closures,
70. Necktie attachments,
71. Necktie-retainers,
72. Waterproof,
188. Compressors,
189. Compressors and hose-supporters
- combined,
76. Corset-stiffeners—
77. Hinged,
78. Reinforced,
73. Corsets—
74. Closures,
75. Shields,
79. Cuffs,
190. Guards—
191. Ball-players' protectors,
80. Lap-ropes,
81. Linings,
11. Neckties—
82. Bow,
83. Made-up,
84. Shields,
85. Tips,
86. Overcoats,
87. Pads—
88. Shoulder,
41. Shirts—
90. Bosom-supporters,
89. Bosoms,
91. Collar-supporters,
92. Reinforced,
93. Shoulder-braces,
94. Sleeve-adjusters,
95. Sleeve-protectors,
96. Suspender attachments,
97. Vests,
98. Waists.
- Hand-coverings—**
100. Bath,
9. Gloves,
194. Guards—
195. Baseball-gloves,
196. Boxing-gloves,
102. Mittens,
103. Muffs,
104. Shields.
- Head-coverings—**
106. Caps—
107. Flap,
149. Eye-shields,
192. Guards—
193. Face,
108. Hats—
109. Bands,
110. Brim-bindings,
111. Frames,
186. Hangers,
112. Shades,
32. Sweats,
113. Tips,
114. Ventilated,
33. Ventilators,
115. Head-coolers,
116. Head-screens,
117. Helmets,
118. Hoods,
119. Masks,
120. Muffs—
121. Ear.
- Nether garments—**
122. Bifurcated,
123. Bustles,
124. Edge-protectors,
- Guards—
197. Leg,
126. Gussets and stays,
127. Hoop-skirts—
128. Clasps,
129. Hoops,
130. Knee-protectors,
131. Napkins,
132. Placket-closures,

2.—APPAREL—Continued.

- Nether garments—Continued.**
15. Pockets—
134. Reinforced,
151. Safety attachments—
152. Pocket-book,
153. Watch,
154. Watch,
135. Skirt-protectors,
136. Skirt-supporters,
42. Skirts—
137. Cycling,
138. Lifters,
139. Riding,
23. Stockings,
140. Suspender attachments,
141. Trunks,
143. Waist-closures,
142. Waistbands.
187. Trimmings—
146. Edgings,
147. Embroidery—
6. Patterns,
148. Pendants,
16. Plaited,
150. Shoulder-straps and chevrons.
- Union garments—**
144. Bifurcated,
145. Skirted.

3.—ARTIFICIAL BODY MEMBERS.*

1. Miscellaneous.
- Legs—**
3. Socketed,
4. Extensions—
5. Foot,
6. Feet—
7. Resilient—
8. Fluid,
9. Sockets—
10. Slip,
11. Suspenders.
12. Arms and hands.
13. Eyes.

4.—BATHS AND CLOSETS.

1. Basins and stands.
24. Bath and basin fittings.
2. Bathing apparatus—
25. Bidets,
26. Shower,
27. Tubs.
19. Bed-pans.
5. Closet-cisterns—
28. Combined supply and flush valves.
30. Disinfecting apparatus.
20. Dry closets—
31. Magazine,
32. Portable,
33. Receptacles.
35. Plugs, covers, and strainers.
36. Sinks.
38. Spittoons—
39. Covered,
40. Flushing.
12. Urinals.
13. Vapor-baths.
21. Water-closet and sewer ventilation.
18. Water-closet attachments.
- Water-closets—**
16. Plunger,
22. Siphon,
17. Valved,
23. Washout.

* See Definitions of Revised Classes.

5.—BEDS.

- Bed-bottoms—
 - 39. Fabric—
 - 62. Binding and fastening,
 - 63. Corner irons and risers,
 - 64. Frames—
 - 65. Sectional,
 - 66. Reinforces,
 - 67. Tighteners—
 - 68. Roller,
 - 69. Screw-operated,
 - 40. Fabrics and springs,
 - 25. Slats,
 - 26. Slats and springs,
 - 29. Springs.
- 3. Bed-clothing.
- Beds—
 - 1. Air,
 - 5. Camp.
- 4. Bedsteads—
 - 41. Attachments,
 - 42. Braces,
 - 8. Extension,
 - 9. Folding—
 - 60. Berths and bunks,
 - 12. Invalid—
 - 43. Head-sections,
 - 44. Lifters and conveyers,
 - 45. Vertically-moving frame,
 - 16. Sofa—
 - 46. Extension,
 - 47. Folding-back,
 - 48. Folding back and seat,
 - 49. Folding-seat,
 - 50. Rotary back and seat,
 - 51. Vertically-moving frame,
 - 17. Table,
 - 18. Wardrobe-bedsteads—
 - 52. Center-folding,
 - 53. End-folding,
 - 34. Extension,
 - 54. Shifting-fulcrum,
 - 37. Single-frame,
 - 38. Sliding-frame.
- 22. Clothes-clamps.
- 55. Corner-fastenings.
- 56. Cradles—
- 57. Motor-operated.
- 58. Cribs—
- 59. Attachments.
- 10. Hammocks—
- 61. Couch,
- 31. Stretchers,
- 32. Supports.
- 13. Mattresses.
- 14. Mosquito-nets and canopies.
- 33. Pillow-sham holders.
- 15. Pillows.
- 21. Springs.

6.—BEE CULTURE.*

- 1. Beehives—
- 2. Frames—
- 3. Pivoted,
- 4. Entrances and exits,
- 5. Bee-feeders,
- 6. Stands.
- Appliances—
- 7. Swarm,
- 8. Hive-connectors,
- 9. Queen-bee cells and cages,
- 10. Comb-frames,
- 11. Comb-foundation,
- 12. Implements.

7.—COMPOUND TOOLS.*

- 1. Miscellaneous.
- Type—
- 3. Pliers—
- 4. Modified handles—
- 5. Pivoted auxiliary tools,
- 6. Scissors,
- 7. Monkey-wrench,
- 8. Hammer—
- 9. Fixed-form,
- 10. Miner's candlestick,
- 11. Pocket-knife,
- 12. Crowbar,
- 13. Handsaw,
- 14. Fork.
- 15. Holders—
- 16. Pivoted tools.
- 17. Integral.

8.—BLEACHING AND DYEING.

- 16. Apron vats and stretchers.
- 2. Bleaching.
- 1. Carbon dyes.
- 18. Close vats.
- 5. Dyeing processes.
- 6. Dyes.
- 20. Mercerizing.
- 13. Mordants.
- 19. Open vats.
- 17. Perforated rolls and spray-jets.
- 7. Press-dyeing.
- 8. Renovating dress.
- 15. Steam and bleach chests.
- 12. Wool-cleaning.

9.—BOATS AND BUOYS.*

- 1. Boats—
- 3. Life-boats—
- 4. Inclosed,
- 5. Hunting,
- 2. Sectional and folding,
- 6. Hull construction—
- 6.5. Formers and framers,
- 7. Seats and foot-supports.
- 8. Buoys—
- 8.3. Illuminating,
- 8.5. Oil-distributors,
- 9. Wreck-indicating,
- 10. Safes.
- 11. Life-rafts—
- 12. Ship parts and furniture,
- 13. Mattress.
- 17. Life-preservers—
- 18. Mechanical-propulsion,
- 19. Self-inflating,
- 20. Garment.
- 14. Life-saving apparatus.
- 21. Swimming appliances.
- 15. Rafting and booming—
- 16. Timber-couplings.
- 22. Hoisting and lowering—
- 23. Detaching devices.
- 24. Oars—
- 25. Bow-facing.
- 26. Rowlocks.

10.—BOLT, NAIL, NUT, RIVET, AND SCREW MAKING.*

- 1. Miscellaneous.
- 2. Screw-making—
- 3. Head nicking and shaving,
- 4. Pointing and threading,
- 5. Head-nickling—
- 6. Rotary work-holder,
- 7. Punch and die,
- 8. Head-shaving,
- 9. Pointing,
- 10. Processes.
- 11. Bolt and rivet making—
- 12. Multiple-header,
- 13. Rotary multiple dies,
- 15. Reciprocating die and header—
- 16. Toggle-closing dies,
- 17. Wedge-closing dies,
- 18. Side-swaging,
- 14. Cotter-slot punching,
- 19. Bolt-head finishing—
- 20. Broaching,
- 21. Bolt-pointing,
- 22. Anvils,
- 23. Safety devices,
- 24. Dies,
- 25. Shears,
- 26. Heading-punches,
- 27. Processes.
- Nail-making—
- Cut nails—
- 36. Horseshoe-nails—
- 37. Cutting and finishing,
- 38. Finishing—
- 39. Rotary work-holder,
- 40. Dies,
- 41. Nail-plates,
- 42. Processes,
- 29. Tack-strips,
- 30. Cutting and heading,
- 31. Cutting and pointing,
- 32. Cutting,
- 35. Dies,
- 33. Nail-plates,
- 34. Processes,

10.—BOLT, NAIL, NUT, RIVET, AND SCREW MAKING—Continued.

Nail-making—Continued.

- 43. Wire nails—
- 44. Making and distributing,
- 45. String-nails,
- 46. Spiral-shank,
- 47. Multiple-header—
- 48. Opposite,
- 49. Reciprocating die and header—
- 50. Toggle-closing dies,
- 51. Wedge-closing dies,
- 52. Rotary work-holder,
- 53. Dies,
- 54. Processes,
- 55. Wrought nails—
- 56. Spikes—
- 57. Reciprocating die and header,
- 58. Roller-die,
- 59. Pointing,
- 60. Rotary work-holder,
- 61. Dies,
- 62. Blanks,
- 63. Processes,
- 64. Horseshoe-nails—
- 65. Chain-feed,
- 66. Roll-forging—
- 67. Traveling-roll,
- 68. Side-swage,
- 69. Rotary work-holder,
- 70. Dies,
- 71. Processes.
- Nut and washer making—
- 72. Lock-washer making,
- 73. Coiling and forging,
- 74. Nut finishing and tapping,
- 75. Forging—
- 76. Rotary multiple dies,
- 77. Double-punch drive,
- 78. Side-swage,
- 80. Side-swage and mandrel,
- 81. Nut-broaching,
- 82. Nut-milling,
- 83. Nut-facing—
- 84. Arbors
- 85. Dies,
- 86. Processes.
- Screw-threading—
- 87. Machines, combined,
- 88. Wooden screws,
- 89. Machines—
- 90. Cutting-off and threading,
- 91. Multiple-die—
- 92. Alined,
- 93. Turret,
- 94. Collapsing-die—
- 95. Bevel-closing,
- 96. Cam-closing,
- 97. Lever-closing—
- 98. Cone,
- 99. Toggle,
- 100. Pivoted chaser-carrier,
- 101. Chasing-cutter—
- 102. Rotary,
- 103. Recessed cylindrical die-block,
- 104. Screw chaser-adjustment,
- 105. Feeds,
- 106. Lubricators,
- 107. Work-holders—
- 108. Nipple-chucks,
- Implements—
- 109. Combined turning and threading,
- 110. Dies, combined cutting-off and threading,
- 111. Dies—
- 112. Pipe-trimming,
- 113. Thread-trimming,
- 114. Multiple—
- 115. Rotatable die-block,
- 116. Divided—
- 117. Coned-screw adjustment,
- 118. Integral—
- 119. Adjustments,
- 120. Radial-chaser—
- 120.5. Taper-threading,
- 121. Adjustable—
- 122. Cam-operated,
- 123. Die-stocks—
- 124. Ratchet,
- 125. Hinged,
- 126. Oilers,
- 127. Bushings,
- Tapping—
- 128. Machines, combined reaming and tapping,
- 129. Machines—
- 130. Multiple tap-spindle—
- 131. Tee-threading,
- 132. Circular-gang,

*See Definitions of Revised Classes.

10.—BOLT, NAIL, NUT, RIVET, AND SCREW MAKING—Continued.

- Screw-threading—Continued.**
Tapping—Continued.
Machines—Continued.
 133. Double tap-grip,
 134. Releaseable-tap,
 135. Yielding tap-driver,
 136. Reversing mechanisms—
 137. Bevel-geared,
 138. Spur-geared,
 139. Feeds,
Implements—
 140. Taps, combined,
 141. Taps—
 142. Adjustable,
 143. Collapsible—
 144. Cam-core,
 145. Wedge-core,
 146. Built-up,
 147. Guides,
 148. Tap-wrenches—
 149. Axial-screw clamp,
 150. Ratchet,
 151. Transverse-screw clamp,
 152. Swaging—
 153. Reciprocating-die,
 154. Thread-milling,
 155. Bolt and nut assembling.
Capping nails and screws—
 157. Rectangular stock-feed,
 158. Rotary work-holder,
 159. Nicking devices,
 160. Dies,
 161. Processes.
Distributors and feeders—
 163. Agitated-chute,
 164. Agitated-hopper,
 165. Inclined-chute,
 166. Gripping feeding-jaws,
 167. Reciprocating-lifter,
 168. Rotary-cylinder,
 169. Rotary-disk,
 170. Rotary-hopper,
 171. Nail-plate—
 172. Oscillating,
 173. Reversing—
 174. Geared—
 175. Rack-and-pinion,
 176. Segmental,
 177. Strap-drive,
 178. Nippers and nose-pieces.

11.—BOOKBINDING.

13. Bank-notes, checks, and bonds.
 16. Binding.
 2. Binding-machines—
 33. Pamphlet-covers,
 24. Rounding and backing,
 25. Signature-gatherers.
 4. Book-cover protectors.
 12. Book-leaf holders and marks.
 17. Books and binding.
 3. Books and covers.
 18. Covers—
 35. Removable.
 7. Indexing—
 27. Cutting and printing.
 19. Leaves.
 20. Leaves and covers.
 14. Postage and revenue stamps.
 15. Tickets.
 11. Writing-tablets—
 22. Continuous—
 36. Manifolding.
 23. Manifolding.

12.—BOOT AND SHOE MAKING.*

1. Miscellaneous.
 2. Lasting and nailing machines—
 3. Hand-guided driver,
 4. Multiple drivers,
 5. Pivoted-jack.
 6. Lasting and sewing machines.
 7. Lasting-machines—
 8. Girth-stretcher,
 9. Nipper-stretcher—
 10. Wiper-folder—
 11. Multiple work-supports,
 11.1. Nippers,
 12. Wiper-stretcher—
 13. Pronged,

12.—BOOT AND SHOE MAKING—Contd.

- Lasting-machines—Continued.**
 14. End-lasting—
 14.1. End clasps,
 15. Relasting,
 16. Tack-pullers.
 17. Sole-machines—
 18. Channeling and trimming—
 19. Clamped-work,
 20. Insole-reinforcing,
 21. Blank-molding—
 22. Edge,
 23. Blank-rounding—
 24. Strip-feed,
 25. Clamped-work—
 26. Rotary work and cutter,
 27. Channeling—
 28. Clamped-work,
 29. Channel-flap layers,
 30. Channel-flap turners,
 31. Edge-inking,
 32. Imitation-stitch,
 33. Laying and leveling—
 34. Roll,
 35. Oscillating jack and former,
 36. Multiple work-supports—
 37. Revolvable,
 38. Dies and formers,
 39. Lining-appliers,
 40. Slitting and grooving,
 41. Stitch-separating and indent-
 ing.
 42. Heel-machines—
 43. Breasting and nailing,
 44. Die-cutting and nailing,
 45. Trimming and nailing,
 46. Bevel and seat cutting,
 47. Breasting,
 48. Molding,
 49. Beading,
 50. Assembling.
Upper-machines—
 52. Assembling,
 53. Beading,
 54. Edge-notching,
 55. Folding,
 57. Turning,
 58. Skiving,
 59. Strap-covering.
Shank-machines.
 60. Shank-machines.
 61. Toe and heel stiffener ma-
 chines—
 62. Skiving—
 63. Recessed-carrier,
 64. Molding—
 65. Roll,
 66. Separable-matrix.
 67. Welt and rand machines—
 67.1. Welt and rand formers,
 67.2. Welt-beaters.
 68. Boot-treating machines.
 69. Boot-tree holders.
 70. Burnishing-machines—
 71. Heel—
 72. Oscillating-jack—
 73. Automatic transverse-feed,
 74. Oscillating tool-head—
 75. Automatic transverse-feed,
 76. Shank and tread,
 77. Rotary-tool,
 78. Vibrating-tool—
 79. Hand-guided.
 80. Cement-applying devices.
 82. Inseam-trimming machines—
 83. Horn-carried knife.
 83.5. Vamp-trimming machines.
 84. Peg-cutters.
 85. Sole and heel edge trimmers—
 86. Clamped-work—
 87. Rotary-cutter,
 88. Rotary-cutter—
 89. Multiple cutter-head,
 90. Adjustable rand-guide,
 91. Rotary cutter-heads—
 92. Axially-adjustable,
 93. Supplemental cutters,
 94. Inserted cutters—
 95. Angularly-adjustable.
 96. Upper-creasing.
 97. Upper crimping and stretch-
 ing—
 98. Shank-stretchers,
 99. Former and wiper—
 100. Belt-carried former,
 101. Pivoted-former,
 102. Formers and clamps.
Tools.
 103. Burnishing-tools—
 104. Rotary.
 105. Channeling-tools.
 107. Lasting-tools—
 108. Nailing and stretching,
 109. Stretchers and hammers,

12.—BOOT AND SHOE MAKING—Contd.

- Lasting-tools—Continued.**
 110. Stretchers—
 111. Multiple-grip,
 112. Toe,
 113. Fly-closers.
Sole and heel edge trimmers—
 114. Hand-tools—
 115. Double-grip.
Boot-trees—
 116. Plunger-expanded,
 117. Foot-locks,
 118. Footpieces,
 119. Clasps.
Shoemakers' benches.
Work-supports—
 124. Expandible-holder,
 125. Heel-clamping,
 126. Last-jacks—
 127. Saddle and spindle.
Felt-boot formers.
Formers—
 129. Pneumatic,
 130. Stretchers—
 131. Lateral and longitudinal,
 132. Lateral.
Lasts—
 133. Adjustable,
 134. Separate heel-block—
 136. Hinged,
 137. Instep-block fasteners—
 138. Sliding-bolt,
 139. Heel-plates and sockets,
 140. Peg-receivers,
 141. Shoe-retainers.
Processes—
 142. Lasting,
 145. Miscellaneous parts,
 146. Heel.

13.—BRAKES AND GINS.

10. Delinting cotton-seed.
 23. Feather-reducers.
 1. Gin attachments.
 11. Gin-brushes.
 17. Gin-condensers.
 12. Gin-feeders—
 19. Pneumatic.
 13. Gin-ribs.
 20. Gin-rollers.
 15. Gin-saw cleaners.
 14. Gin-saws.
 2. Hackling-machines.
 3. Hair-pickers.
 4. Oakum-machines.
 5. Processes.
 22. Rag-cutters.
 6. Reciprocating brakes.
 7. Roller-gins.
 21. Rotary brakes—
 16. Breakers and crushers,
 18. Scutchers.
 9. Saw-gins.

14.—BRIDGES.*

1. Miscellaneous.
Combination—
 2. Truss and arch.
Truss—
 3. Arrangement—
 4. Adjustable,
 5. Deck,
 6. Cantaliver—
 7. Suspension,
 8. Bowstring—
 9. Adjustable,
 10. Intermediate catenary,
 11. Both chords curved,
 12. Structure,
 13. Details—
 14. Connections,
 15. End shoes,
 16. Expansion devices.
Girder.
Suspension—
 18. Compound system,
 20. Simple system,
 21. Towers and anchors,
 22. Cables and cable-clamps,
 23. Constructive apparatus.
Arch—
 24. Compound,
 25. Abutments and anchorages.

*See Definitions of Revised Classes.

14.—BRIDGES—Continued.

27. Floating—
28. Adjustable height,
29. Draw—
30. Locking.
31. Draw—
32. Swing—
33. Hand or motor operated,
34. Boat-operated,
35. End supports and locking devices,
- Bascule—
36. Fixed-pivot—
37. Hinged sections,
38. Rack-and-pinion,
39. Non-pivoted—
40. Rack-and-pinion,
41. Locking devices,
42. Lift,
43. Horizontally-sliding—
44. Boat-operated,
45. Lazy-tongs,
46. Locking devices,
47. Aprons,
48. Buffers,
49. Signals,
50. Gates—
- Hand or motor operated—
51. Horizontally-swinging,
52. Vertically-sliding,
53. Vertically-swinging,
- Bridge-operated—
- Displacement—
54. Horizontally-sliding—
55. Locking,
56. Horizontally-swinging—
57. Locking,
58. Vertically-sliding—
59. Locking,
60. Vertically-swinging—
61. Locking,
- Shaft-rotation—
62. Horizontally-sliding—
63. Locking,
64. Horizontally-swinging—
65. Locking,
66. Vertically-sliding—
67. Locking,
68. Vertically-swinging—
69. Locking.
- Gangways—
70. Endless conveyer,
71. One end attached,
72. Unattached.
73. Floors.
74. Coverings.
75. Piers—
76. Fenders,
77. Processes.

15.—BRUSHING AND SCRUBBING.

1. Blacking box and brush cases.
18. Blacking-box holders.
61. Boot-blackening machines.
2. Boot-cleaners.
4. Broom-machines.
- Brooms—
19. Broom-heads,
20. Household,
21. Stable and yard,
22. Whisk.
- Brush and broom bristles.
24. Brush and broom handles.
25. Brush-cleaners.
- Brush heads and faces—
26. Bath and flesh brushes,
27. Brush and broom fiber,
28. Dusting-brushes,
29. Hair-brushes,
30. Hat and clothes brushes,
31. Horse-brushes,
32. Metal-cleaning brushes,
33. Metallic tuft-fasteners,
34. Molded backs,
35. Nail-brushes,
36. Paint and whitewash brushes,
37. Rotary brushes,
38. Scrubbers,
39. Shaving-brushes,
65. Slate and blackboard cleaners,
7. Tooth-brushes.
- Brush-machines.
40. Brush-trimming machines.
8. Carpet-cleaners.
60. Carpet-sweepers.

15.—BRUSHING AND SCRUBBING—

Continued.

- Chimney-cleaners—
41. Flue and stovepipe,
42. Lamp.
43. Combined mop heads and wringers.
44. Combined scrubbers and mops.
45. Dressing and assorting machines.
- Fountain-brushes—
69. Bath and flesh,
46. Blacking,
47. Broom,
48. Hair,
66. Mucilage,
49. Paint,
51. Scrubbers,
50. Shaving,
67. Slate and blackboard cleaners,
52. Tooth,
53. Window-cleaners.
- Holders—
54. Brush-head,
55. Convertible mop and brush,
56. Mop-heads.
- Lens-cleaners.
68. Mats—
62. Metallic,
63. Wire.
12. Mop-wringers.
57. Mops.
14. Scrubbing-machines.
15. Scrubbing-palls.
58. Shoe-blackening stands.
16. Shoe-brushes.
17. Street-sweepers.
59. Window-cleaners.

15.—BUILDERS' HARDWARE.

1. Blind-stops.
2. Bolts—
61. Double-door,
63. Multiple,
66. Operators,
64. Sliding,
65. Sliding and rotary.
3. Carpet-fasteners—
68. Clasps,
69. Moldings,
70. Strips,
71. Tack-fasteners.
4. Casters—
164. Adjustable,
- Antifriction-rollers—
73. Loose,
72. Pivoted,
45. Ball—
151. Antifriction-rollers,
152. Pivoted,
165. Leg-elevators—
166. Frame,
168. Locked,
76. Pintle-retainers,
74. Spring,
167. Temporary,
75. Wheels.
- Door-checks—
77. Buffers,
80. Catches and buffers,
79. Catches, floor,
78. Catches, wall,
81. Chain or link,
83. Foot-bolt,
82. Foot-lever,
84. Sliding-bolt,
85. Trippers.
- Door checks and closers—
88. Liquid,
87. Pneumatic.
- Door-closers, gravitating.
47. Door-hangers—
89. Brackets,
156. Lever,
157. Releasing,
90. Roller-carriage—
91. Ball-bearing,
92. Sliding,
93. Stay-rollers.
- Door-securers—
8. Braces.
154. Door-springs—
9. Bow,
94. India-rubber,
95. Lever attachments,
96. Sliding-door,
98. Strap and pulley attachments.
- 97.

16.—BUILDERS' HARDWARE—Contd.

Door-springs—Continued.

99. Torsional—
100. Coiled,
101. Flat,
102. Volute.
158. Ferrules, rings, and thimbles—
159. Ferrule-tips,
160. Ring-ferrules.
- Handles—
10. Braces,
153. Coffin,
103. Insulated—
169. Knobs,
172. Loop,
173. Tool,
170. Valve.
171. Hinges—
11. Awning-blind,
48. Box,
104. Coach,
5. Concealed,
105. Door—
106. Butt,
107. Strap,
108. Flush,
109. Gate,
49. Gravitating,
163. Lock, frictional,
111. Lock, positive,
110. Longitudinally-adjustable,
112. Safe,
14. Spring,
25. Table,
27. Vertically-adjustable.
113. Sash-balances—
- Friction,
114. Spring—
115. Drum and cord,
148. Friction-roller,
149. Gear and rack,
150. Weight.
116. Sash-cord fasteners—
16. Weight.
125. Sash-cord guides.
17. Sash-fasteners—
18. Gear and rack,
117. Lifts,
53. Mid-rail,
51. Right-angle,
52. Rod-clamps,
118. Sliding bolts.
119. Sash-holders—
19. Clamps,
121. Combined fasteners,
120. Foot,
122. Roller-bearing,
54. Wedges.
124. Sash-weights.
20. Shutter-bowers.
22. Shutter-fasteners—
23. Bars or bolts.
126. Catches—
- Double,
128. Gravity,
131. Rod,
130. Single,
127. Sliding,
155. Wall,
129. Combined sash,
55. Fire,
56. Hooks,
132. Operators,
133. Shutter-workers—
24. Combined slat,
57. Cord or chain,
134. Levers,
135. Rotary-shaft,
136. Sliding-shaft,
137. Sliding-shutter.
138. Stair-rods and securers—
26. Buttons,
139. Fasteners,
140. Rods.
141. Till-alarms.
37. Transom-lifters—
28. Pivots.
142. Window and door buttons—
30. Automatic,
58. Sliding bolts,
143. Screw,
144. Strips,
59. Trippers,
145. Vertically-swinging.
146. Window-bead fasteners.
- 29.

* See Definitions of Revised Classes.

17.—BUTCHERING.

8. Butchers' stalls.
9. Chopping-blocks.
- Dressing—
10. Fish-dressing machines,
11. Hog-scraping machines,
12. Intestine-cleaners,
13. Skinning.
14. Meat-clamps.
- Meat-cutters—
16. Cracklings,
17. Crank mechanism,
18. Cube,
19. Cylinder and block,
20. Cylinder and concave,
21. Double-cylinder,
22. Hand,
23. Rocking-knife,
24. Slicers,
25. Trip mechanism.
26. Meat-mixers.
- Meat-tenderers—
27. Hand,
28. Pivoted-head,
29. Rotary.
31. Oyster-openers.
6. Sausage-machines.
7. Scalding and singeing.
30. Slaughtering, elevating, and suspending.

18.—PLASTICS.*

1. Miscellaneous.
2. Vulcanizable gums, apparatus.
3. Pyroxylin, apparatus.
- 3.5. Puttying devices.
4. Molding plants.
5. Molding devices—
- 5.3. Sound-record—
- 5.5. Casting or dipping,
- 5.6. Fluid-pressure,
6. Heating and vulcanizing—
7. Pots,
8. Filament-forming,
9. Rolling—
10. Sheets,
11. Compound,
12. Die-expressing—
13. Compound,
14. Tube and hollow,
15. Film-spreading,
24. Dipping—
25. Capsule-machines,
26. Casting—
27. Candles,
28. Crayons,
29. Rollers,
16. Presses—
17. Heating and vulcanizing—
18. Tire-repairing,
19. Sheet-shaping,
20. Rotary mold-support—
21. Peripheral,
22. Reciprocating-mold,
23. Stationary-mold,
30. Chargers,
31. Mold wiping and coating,
32. Flasks and clamps—
33. Dental,
34. Molds—
35. Sheet-shaping,
36. Blank-covering and filling—
37. Lacing hooks and studs,
38. Heating and vulcanizing,
39. Casting—
40. Soap,
41. Dipping,
42. Two and three part,
43. Clamping,
44. Dies and matrices,
45. Cores—
46. Boot trees and lasts,
47. Materials.
- Processes—
- 47.5. Combined,
48. Miscellaneous,
- 18.3. Sound-record—
- 18.4. Facing or uniting,
- 48.5. Casting or dipping,
- 48.6. Fluid-pressure,
- 48.8. Imitating marble,
49. Vulcanizable gums—
50. Caoutchouc,
51. Pyroxylin,
52. Restoring caoutchouc,
53. Vulcanizing caoutchouc,
54. Filament-forming,

18.—PLASTICS—Continued.

- Processes—Continued.
55. Molding—
56. Sheets,
57. Film-spreading,
58. Casting and dipping,
59. Uniting,
60. Facing type—
61. Design.

19.—CARDING.

16. Balling-heads.
1. Burring.
2. Card-clothing.
3. Carding.
5. Coilers.
17. Comb dabbing mechanism.
6. Combing—
24. Circle-combs.
26. Condensing-guides.
12. Covering yarn.
22. Cylinders and rollers.
28. Drawing or feeding—
29. Evening,
31. Roll-clearers,
35. Rollers,
32. Roll-stands—
33. Pressure devices—
34. Pressure-relieving,
30. Thread or roll traverse.
18. Dust-trunks.
7. Feeding cards.
13. Fleece dividers and condensers.
14. Fleece-removers.
8. Lapping.
19. Opener-beaters.
20. Opener evening mechanism.
9. Pickers.
21. Screens.
25. Stopping.
15. Stripping mechanism.
23. Traveling-flat cards.
27. Twisting-heads.
10. Wadding.
11. Wool-oiling.

20.—WOODEN BUILDINGS.*

- 0.5. Miscellaneous.
1. Buildings—
- 1.11. Apartments,
- 1.12. Auditoriums,
- 1.13. Storage,
- 1.2. Bins—
- 1.4. Silos—
- 1.41. Combined extension and roof,
- 1.42. Chute,
2. Portable houses—
3. Voting-booths,
- 3.5. Telephone-booths,
- 1.1. Plans.
- Scaffolds—
81. Miscellaneous,
- 81.5. Elevating—
- 81.6. Swinging,
- 81.7. Trestles,
87. Window,
82. Swinging,
83. Trestles,
84. Brackets—
86. Shingling,
85. Ladder,
88. Binders.
- 98.5. Sheet-piling.
99. Poles and posts—
100. Protected,
101. Piles.
10. Stairs.
79. Stair-covers.
4. Wall construction.
5. Weather-boarding.
13. Lathing—
14. Lath-holders.
- Floors—
6. Miscellaneous,
7. Composite,
8. Interlocking,
9. Joist-bridging.
78. Slatted floor-covering.

20.—WOODEN BUILDINGS—Continued.

- Doors—
16. Miscellaneous,
- Car—
21. Miscellaneous,
- Grain—
27. Miscellaneous,
34. Vertical slide and swing,
28. Horizontal-swing,
29. Pivoted side-tilt,
30. Removable,
31. Side-slide,
32. Vertical-slide—
33. Pivoted-guido,
- Sliding—
22. Miscellaneous,
23. Lateral-movement—
24. Link-support,
25. Guide-closures,
26. Cleats,
37. Door construction,
39. Wickets,
17. Oppositely-hinged,
18. Rotating,
- Sliding—
19. Miscellaneous,
20. Jointed,
35. Door construction—
36. Removable-panel,
38. Braces.
- Windows—
40. Miscellaneous,
55. Storm,
- 40.5. Condensation-preventing,
- Sliding and swinging-sash—
42. Miscellaneous,
43. Cord-fastener pivot,
44. Guide-rod pivot,
- Horizontally-pivoted frame—
45. Separable hinge—
46. Side-swing,
47. Vertical-swing,
- Sliding-frame—
48. Vertically-pivoted sash,
- Sliding-stile—
49. Horizontally-pivoted sash,
50. Vertically-pivoted sash,
- Vertically-pivoted frame—
51. Sliding-sash,
- Sliding-sash—
52. Pocketed,
- 52.1. Removable—
- 52.2. Supplemental-stile,
- 52.3. Joint-closures—
- 52.4. Positive—
- 52.5. Wedge,
- 52.6. Swinging-sash,
53. Sashes—
54. Cushioned,
56. Sash construction—
- 56.1. Removable-panel,
- 56.2. Sliding-pane,
- 56.3. Corner-posts and mullions,
- 56.4. Pane-fasteners,
- 56.5. Parallel panes.
57. Window cranes.
- Shutters—
58. Miscellaneous,
59. Awning,
61. Sliding,
60. Registering-slide,
62. Sashes—
63. Pivoted,
64. Fixed.
11. Door and window frames—
12. Movable jambs.
- Thresholds.
70. Door and window troughs.
71. Door and window guards—
72. Body-attached.
- Weather-strips—
65. Hinged—
66. Sills,
67. Spring,
68. Sliding,
69. Packing.
73. Mantels.
- Wooden columns—
97. Caps and bases.
98. Panels and wainscoting.
15. Corner-shields.
76. Ceiling-centerpieces.
77. Moldings.
74. Joist connections.
95. Framing-sockets.
75. Mosaics and inlaying.
93. Nail-hole plugs.
91. Compound lumber.
- Veneering.
92. Splices and joints.

* See Definitions of Revised Classes.

21.—CARRIAGES AND WAGONS.

80. Ambulances and stretchers.
2. Axle-boxes.
4. Axle-skins.
5. Axles—
188. Cushioned lateral-thrust,
153. Rotary shaft or spindle,
187. Spring-mounted skein or spindle.
7. Bodies.
182. Body-frames and running-gear.
186. Body-leveling devices.
81. Boots and aprons.
10. Brake-levers.
8. Brakes—
9. Automatic,
82. Shoes.
11. Carriage-irons.
85. Chafe-irons.
12. Children's carriages—
83. Folding,
84. Stops.
86. Chute-wagons.
13. Clips.
14. Close carriages.
154. Convertible road and rail vehicles.
15. Dashboards.
125. Doors and windows.
76. Draft-equalizers.
19. Drays.
20. Dumping-wagons.
21. End-gates.
23. Fenders.
24. Fifth-wheels.
88. Hand-barrows.
74. Hay-racks.
26. Hearses.
27. Hoidbacks.
75. Horse-detachers.
28. Hose-carriages.
29. Hounds.
30. Hub-attaching devices.
89. Hub-caps.
31. Hubs.
32. King-bolts.
33. Lumber-wagons.
183. Miscellaneous.
189. Miscellaneous draft appliances.
90. Motor-vehicles.
77. Neck-yokes.
203. One-wheeled vehicles.
92. Pole-tips.
36. Poles and shafts—
91. Convertible.
146. Portable tanks and boilers—
147. Loveling devices.
127. Rein-holders—
132. Clamp,
133. Spring—
134. Pivoted,
135. Weighted,
136. Wheel.
128. Rein-supports.
39. Running-gear—
138. Underframes, parallel axles,
204. Wheeled tongue-supports—
205. Single wheel, swiveled mounting—
206. Spring-mounted tongue.
40. Sand-bands.
41. Seat-locks.
42. Seats—
43. Shifting,
44. Spring.
45. Shifting-rails.
93. Short-turning gear—
143. Oppositely-swinging axles—
145. Axle extensions pivotally and slidably connected,
144. Cross-reaches,
139. Stub-axle type—
140. Four wheels steered,
141. Stub-axles—
142. Pivot in wheel-plane.
46. Sled-brakes.
47. Sled-propellers.
48. Sleds—
94. Hand,
95. Shifting-thills.
96. Wheel-runners.
97. Spring-gear.
105. Springs—
54. Braces and equalizers.
192. Standards.
194. Steering-gear—
195. Checks—
202. Fluid,
202. Single-wheel,

21.—CARRIAGES AND WAGONS—Con.

- Steering-gear—Continued.
196. Stub-axle type—
197. Angle-arms link-connected—
200. Automatically-governed,
198. Rotary shaft and gearing—
199. Interposed transmission-link,
201. Swinging-axle,
193. Three or four wheels steered.
55. Steps.
56. Sulkies.
57. Thill-couplings—
106. Antirattlers,
107. Jacks.
108. Thill-supports.
185. Three-wheeled vehicles.
63. Tongue-supports.
60. Top-joints.
61. Top-props.
62. Tops.
114. Traction-engines—
124. Steppers.
65. Trucks—
121. Barrel,
116. Brick,
122. Drying,
118. Elevating,
115. House-moving,
120. Implement,
117. Piano,
119. Water-barrel.
137. Vehicle-trains.
148. Vehicles with five or more wheels.
149. Wheel substitutes—
150. Portable track—
151. Annular,
152. Steppers.
68. Wheelbarrows.
191. Wheeled vehicles, occupant-steered.
69. Wheels—
165. Fellies—
178. Joints,
170. Metallic,
166. Split, adjustable—
167. Screw-adjustment—
168. Right and left threaded bolt,
169. Wedge-adjustment,
171. Spoke connections—
172. Adjustable-spoke—
173. Screw-adjustment,
177. Combined felly-joint,
174. Spoke-caps—
175. Combined felly-joint,
176. Side extensions,
155. Non-resilient tires—
162. Fastening devices—
163. Combined felly-joint,
161. Interposed clips or wedges,
160. Rail-climbing devices,
156. Split, adjustable—
157. Screw-adjustment—
158. Right and left threaded bolt,
159. Wedge-adjustment,
161. Supplemental tires,
179. Resilient-tirerims—
180. Metallic,
181. Spoke connections,
207. Traction—
217. Cylindrical rim, projecting spurs,
215. Detachable spurs,
214. Detachable traction-tire,
208. Movable spurs—
209. Adjustable—
210. Alternate projection and retraction,
211. Individually-adjusted,
212. Spring-projected,
216. Parallel rims, connecting-spurs,
218. Recessed-rim,
213. Supplemental rim or wheel.
79. Whiffletree-hooks.
78. Whiffletrees.
129. Whip-sockets—
130. Lock.
131. Whip-sockets and rein-holders combined.
148. Wind-shields.

22.—METAL-FOUNDING.*

1. Miscellaneous.
2. Stereotype-casting apparatus—
3. Combined machines,
4. Heating or cooling mold,
5. Molds.
6. Type-casting apparatus—
7. Combined machines,
8. Molds.
- 8.5. Type or stereotype matrices.
9. Molding apparatus—
10. Core-making—
11. Die-expressing,
12. Rotating core-bar,
13. Core-boxes,
14. Screw-threads,
15. Curved molds,
16. Pipes vertical—
17. Compacting pattern—
18. Rotating—
19. Bead-forming,
20. Plants,
21. Rotating-table,
22. Rolling-pattern,
23. Segmental-pattern,
21. Sweeping or cutting,
25. Packing and drawing—
26. Mold moving against press-head,
27. Parting surface compression—
28. Stripping,
29. Jarring-mold and stripping,
30. Pressing and vibrating pattern,
31. Assembling mold parts,
32. Inverting flask—
33. Rock-over,
34. Removing mold,
35. Charging flask—
36. Under pressure,
37. Core-setting,
38. Sprue-molding,
39. Venting,
40. Packing sand—
41. Multiple rammer,
42. Presses—
43. Swinging presshead—
44. Reciprocating-mold,
45. Jarring,
46. Pressheads and plungers,
47. Drawing pattern—
48. Mold-lifting—
49. Reciprocating pattern,
50. Stripping—
51. Compound stripping-plate,
52. Parallel motion,
53. Curvilinear draw,
54. Stool,
55. Lever and link,
56. Vibrating.
6. Casting apparatus—
58. Composite castings and joints—
59. Fence and net leading,
60. Ingots,
61. Pigs—
62. Endless-chain,
63. Rotating-table,
61. Plants,
65. Centrifugal,
66. Tandem,
67. Compression—
68. Charging under pressure—
69. Pneumatic,
70. Melting-pot and pump—
71. Heated,
72. Pneumatic,
73. Vacuum,
74. Mold-heaters,
75. Moving mold—
76. Endless-chain,
77. Rotating-table,
78. Reciprocating,
79. Metal holding and pouring—
80. Pot-charging,
81. Ladles—
82. Carriers and manipulators,
83. Skimming,
84. Bottom-pour—
85. Internal-stopper,
86. Hand.
87. Mold and core drying apparatus.
88. Mold coating and lining apparatus.
89. Mold-material-treating apparatus.
90. Mold and flask supports—
91. Tilting.

* See Definitions of Revised Classes.

22.—METAL-FOUNDING—Continued.

92. Mold-separating devices—
93. Drawing core.
94. Casting-ejectors—
95. Ingot-strippers.
96. Flasks—
97. Dental-plate,
98. Vertical-pipe,
99. Multipart,
100. Extensible,
101. Pattern, core, or insert holding—
102. Sash-weight,
103. Chill-holding—
104. Wheel,
105. Swinging-cope,
106. Separable sides or ends—
107. Snap-flasks,
108. Gate-extension,
109. Clamping,
110. Guides,
111. Sand-retaining devices.
112. Mold jackets and weights.
113. Molds—
114. Finger-ring,
115. Split castings,
116. Composite castings and joints—
117. Pipe-joints—
118. External bands,
119. Expanding clamps,
120. Wheels,
121. Ingots,
122. Non-metallic inserts,
123. Lining articles,
124. Sand-molds—
125. Insert-clamps,
126. Sand and metal—
127. Circular chills—
128. Wheel,
129. Sand—
130. Multiple,
131. With cores—
132. Circumferential,
133. Vertical,
134. Sprue, gate, runner, and riser,
135. Vents,
136. Metal—
137. Chains,
138. Wheels,
139. Ingots and pigs—
140. Hollow,
141. Bottom-pour,
142. Multiple,
143. Horizontal,
144. Double-walled,
145. Separable sides—
146. Clamped,
147. Sink-heads and feeders,
148. Stoppers,
149. Multiple,
150. Sprue-separating,
151. Separable cores—
152. Single,
153. Two-part,
154. Ejecting,
155. Runner,
156. Clamping.
157. Pattern and match plates.
158. Patterns—
159. Pipe,
160. Insert, core, or chill supporting,
161. Core-forming,
162. Sprue, gate, and runner,
163. Undercutting,
- 163.5. Coatings,
164. Composition and composite.
165. Cores—
166. Pipe,
167. Chill or insert holding,
168. Metal—
169. S-trap,
170. Contracting,
171. Vents,
172. Core-bars—
173. Collapsible.
174. Chills—
175. Plow—
176. Vents,
177. Heated or cooled,
178. Circular—
179. Gear-teeth,
180. Rolls,
181. Non-chilling rings,
182. Contracting,
183. Vents.
184. Core chaplets and supports.
185. Molding-tools—
186. Pattern-lifters and draw-plates,
187. Rammers.
188. Mold and core materials—
189. Coatings and linings.
190. Processes—
191. Pattern-plate and match making,

22.—METAL-FOUNDING—Continued.

- Processes—Continued.
192. Treating mold,
193. Molding—
194. Core-making,
195. Pattern-making,
196. Destroying pattern,
197. Green-sand—
198. Mold and core,
199. Drawing pattern,
200. Casting—
201. Composite article—
202. Partly non-metallic,
203. One metal solid—
204. Heated—
205. By original heat of casting,
206. Iron and steel—
207. Compression,
208. Tandem,
209. Introducing metal—
210. By immersion,
211. Annealing in mold,
212. Cooling—
213. Chilling iron,
214. Treating with gases,
215. Treating with solids,
216. Preventing piping by manipulation,
217. Preparation of mold materials.
218. Ingots—
219. Composite.

23.—CHEMICALS.

1. Acids, mineral.
21. Ammonia.
3. Apparatus—
31. Leaching.
24. Carbon compounds.
28. Catalytics.
5. Fire-extinguishing compounds.
10. Metalloids.
30. Miscellaneous.
11. Packing chemicals—
29. Absorbed gas.
13. Salines.
22. Soda and potash.
27. Vinegar.

24.—BUCKLES, BUTTONS, CLASPS,**ETC.***

1. Miscellaneous.
2. Album-fasteners.
3. Article-holders—
4. Chatelaine safety-hooks,
5. Flower—
6. Pin-attached,
7. Napkin—
8. Hook,
9. Neck-involosing,
10. Penoil—
11. Clasp-attached,
12. Pin-attached,
15. Sleeve,
13. Pin-attached.
16. Bale and package ties—
17. Packet-holders—
18. Cord,
19. Strap-tighteners,
20. Metal bands—
21. Separate connections—
22. One-piece—
23. Sheet-metal,
24. Pivoted parts,
25. Wedging parts,
26. Wire,
27. Wire—
28. Separate connections—
29. Wire,
30. Wooden bands.
- 30.5. Bag-fasteners.
31. Belt-fasteners—
32. Tighteners,
33. Hinged,
34. Lacing,
35. One-piece—
36. Deflecting-prong,
37. Screw-clamp,
38. Splices,
39. Wire.
40. Buttons.

24.—BUCKLES, BUTTONS, CLASPS,**ETC.—Continued.**

41. Cuff-holders—
42. Adjustable,
43. Clasp-button,
44. Clasp-clasp,
45. Clasp-hook,
46. Clasp-pin,
47. Pin-button,
48. Pin-fastener.
49. Necktie-fasteners—
50. Bands—
51. End-securing pin,
52. Gripping,
53. Depressors—
54. Button-engaging,
55. Pin or spur,
56. Button-engaging—
57. Adjustable,
58. Cord-loop,
59. Pivoted or sliding jaw,
60. Pin-attached,
61. Collar-button combined—
62. Clasp-attached,
63. Pin-attached,
64. Separable fastener,
65. Tie-attached hook.
66. Paper-clips.
67. Paper-fasteners.
68. Strap-tighteners—
69. Cam-lever and loop—
70. Step-adjusted,
71. Strap-attached folding-lever,
- 71.1. Midline—
- 71.2. Winders—
- 71.3. One piece.
72. Trouser guards and straps.
73. Fasteners combined—
74. Buckle-buckle—
75. Separably-connected,
76. Buckle-pin,
77. Buckle separable—
78. Pivoted-lever buckle,
79. Clasp-buckle,
80. Clasp-button,
81. Clasp-clasp—
82. Pin-attached,
83. Separably-connected,
84. Clasp-hook,
85. Clasp-pin,
86. Pin-hook,
87. Pin-pin—
88. Separably-connected.
89. Interchangeable button-loop and pin.
90. Buttons and fasteners—
- 90.5. Loss-preventing devices,
91. Adjustable,
92. Cloth shanks and covers,
93. Multiple attachment,
94. Deflecting prong or rivet—
95. Anvil or plate,
96. Integral,
97. Hinged-leaf—
98. Axially-rotating,
99. Double,
100. Sliding,
- 100.5. Sliding-bar,
102. Link,
101. Integral or rigid stud,
103. Pin-attached,
104. Separable—
105. Screw,
106. Spring—
107. Resilient-head,
108. Resilient-socket,
109. Rotating-head,
110. With operating devices,
111. Separate thread-bar,
112. Spiral fastener,
113. Covers,
114. Pads.
115. Cord and rope holders—
116. Chain,
117. Lacing-terminals—
118. Friction-disk,
119. Knot-inclosing,
120. Pivoted-jaw,
121. Resilient-clip,
122. Wire
123. Couplings and sockets—
124. Nut-clamp,
125. Screw-clamp,
126. Sliding part or wedge,
127. Friction-disk,
128. Knot-engaging,
129. One-piece—
130. Wedge-slot,
131. Wire
132. Pivoted-part—
133. Lever-tension,
134. Cam-lever,
135. Screw-clamp,
136. Sliding part or wedge.

* See Definitions of Revised Classes.

- 24.—BUCKLES, BUTTONS, CLASPS, ETC.**—Continued.
- 137. Clothes-pins—
 - 138. Kerf,
 - 139. Wire,
 - 140. Lacing devices—
 - 141. Eyelets—
 - 142. Plastic-head,
 - 143. Laces and tips,
 - 144. Studs—
 - 149. Roller,
 - 145. Closed-loop,
 - 146. Hook—
 - 147. Moving-part,
 - 148. Plastic-head,
 - 150. Pin-fasteners—
 - 151. Armpit-shields,
 - 152. Upholstering,
 - 153. Paper,
 - 154. Suspending devices,
 - 156. Guards—
 - 157. Pivoted,
 - 158. Sliding,
 - 159. Wire,
 - 155. Loss-preventing devices,
 - 160. Pivoted,
 - 161. Resilient,
 - 162. Sliding,
 - 163. Buckles—
 - 164. Harness—
 - 165. Combined buckles and snap-books,
 - 166. Lock—
 - 167. Key,
 - 168. Clamping—
 - 169. One-piece,
 - 170. Pivoted part or lever,
 - 171. Sliding part or wedge,
 - 172. Cross-balls—
 - 173. Pivoted stud-plate,
 - 174. Rigid-stud,
 - 175. Penetrating-tongue—
 - 176. Guarded,
 - 177. One-piece,
 - 178. Multiple,
 - 179. Pivoted—
 - 180. Lever-actuated,
 - 181. Stud,
 - 182. Sliding part or wedge,
 - 183. Strap-loops and attaching devices,
 - 184. Loop-shields,
 - 185. Garment-shielded,
 - 186. Combined pressure-bar and guard—
 - 187. Hook-attached,
 - 188. Penetrating-prong—
 - 189. One-piece—
 - 190. Hook-attached,
 - 191. Pivoted—
 - 192. Hook-attached,
 - 193. Looped-strap,
 - 194. Sliding part or wedge—
 - 195. Hook-attached,
 - 196. Looped-strap,
 - 197. Looped-strap,
 - 198. One-piece—
 - 199. Hook-attached,
 - 200. Looped-strap,
 - 201. Separable fasteners—
 - 202. Buttonhole-protectors,
 - 203. Multiple—
 - 204. Integrally-connected,
 - 205. Multiple-operated,
 - 206. Step-adjusting,
 - 207. Runway-engaging,
 - 208. Head-and-socket—
 - 209. Axial closures—
 - 210. Link-button,
 - 211. Hinged cap-plate,
 - 212. Pivoted or sliding lock,
 - 213. Pivoted-head,
 - 214. Resilient-head—
 - 215. Rigid-socket,
 - 216. Wire,
 - 217. Resilient-socket—
 - 218. Rigid-head,
 - 219. Wire,
 - 220. Rigid-head,
 - 221. Rigid-socket,
 - 222. Rotating-head,
 - 223. Lateral closures—
 - 224. Auxiliary locking devices,
 - 225. Resilient,
 - 226. Hook-and-eye—
 - 227. Sheet-metal—
 - 228. Metallic attachment,
 - 229. Wire—
 - 230. Metallic attachment,
 - 231. Lateral-sliding.

- 24.—BUCKLES, BUTTONS, CLASPS, ETC.**—Continued.
- 231. Snap-hooks—
 - 240. Watch-chain-attaching,
 - 241. Locking devices—
 - 242. Tension-operated,
 - 232. Pivoted—
 - 233. Spring—
 - 234. Coil—
 - 235. Axial,
 - 236. Resilient—
 - 237. One-piece,
 - 238. Sliding—
 - 239. Spring,
 - 243. Clasps—
 - 244. Ball or roll,
 - 245. Button-and-loop—
 - 246. Pivoted or resilient arms,
 - 247. Slide,
 - 248. Pivoted—
 - 249. Broom or handle,
 - 250. Separate lock-lever,
 - 251. Sliding-lock,
 - 252. Spring—
 - 253. Axial-coil,
 - 254. Broom or handle,
 - 255. Resilient—
 - 256. Circular,
 - 257. Broom or handle,
 - 258. Separate lock-lever,
 - 260. Sliding-lock,
 - 259. Sheet-metal,
 - 261. Wire,
 - 262. Protected jaws,
 - 263. Sliding-jaw,
 - 264. Wedge-slot,
 - 265. Strap-end-attaching devices.
 - 266. Draw-strings.
 - 267. Pivoted edge stays.
 - 268. Resilient connections.
- 25.—PLASTIC BLOCK AND EARTH-ENWARE APPARATUS.***
- 1. Miscellaneous.
 - 2. Brickmaking plants.
 - 3. Electrical-fixture machines.
 - 4. Knob-machines.
 - 5. Playing-marble machines.
 - 6. Tobacco-pipe machines.
 - 7. Soap-molding devices—
 - 8. Die-expressing,
 - 9. Rotary-mold,
 - 10. Stationary-mold.
 - 21. Roller-forming.
 - 22. Pottery-machines—
 - 23. Fluid-operated,
 - 24. Jiggers—
 - 25. Irregular-form,
 - 26. Rotary-former,
 - 27. Presses—
 - 28. Bottom ejectors,
 - 29. Casting.
 - 30. Pipe-machines.
 - 31. Fluid-operated,
 - 32. In situ,
 - 33. Multitubular—
 - 34. Perforators,
 - 35. Perforating-former,
 - 36. Compacting-former,
 - 37. Tapper,
 - 38. Plastic lining and coating,
 - 39. Socket-formers,
 - 40. Turners.
 - 41. Block-molding machines—
 - 42. Flat-tile,
 - 43. Roofing-tile,
 - 44. Undercutting.
 - 45. Block-presses—
 - 46. Portable-mold—
 - 47. Movable-support—
 - 48. Toward feed,
 - 49. Transverse to feed,
 - 50. Supported in race—
 - 51. Plunger—
 - 52. Lever,
 - 53. Pitman,
 - 54. Rack-and-pinion,
 - 55. Mold-pushers,
 - 56. Reciprocating-mold—
 - 57. Fluid-operated,
 - 58. Plunger—
 - 59. In line of mold travel—
 - 60. Cam,
 - 61. Drop,
 - 62. Lever,

- 25.—PLASTIC BLOCK AND EARTH-ENWARE APPARATUS.—Contd.**
- Block-presses—Continued.
 - Reciprocating-mold—Contd.
 - Plunger—Continued.
 - Transverse to mold travel—
 - 60. Cam,
 - 61. Lever,
 - 62. Rotary-mold—
 - 63. Fluid-operated,
 - 64. Facial—
 - 65. Continuous—
 - 66. Plunger, cam,
 - 67. Intermittent—
 - 68. Opposed-plunger—
 - 69. Lever,
 - 70. Single-surface plunger—
 - 71. Cam,
 - 72. Drop,
 - 73. Lever,
 - 74. Pitman,
 - 75. Toggle,
 - 76. Peripheral—
 - 77. Continuous—
 - 78. Opposed mold-wheel—
 - 79. Mating,
 - 80. Plunger, cam,
 - 81. Pressure-roller,
 - 82. Intermittent—
 - 83. Plunger, cam,
 - 84. Plunger, lever,
 - 85. Stationary-mold—
 - 86. Single-surface plunger—
 - 87. Fluid-operated,
 - 88. Cam,
 - 89. Drop,
 - 90. Lever,
 - 91. Pitman,
 - 92. Toggle,
 - 93. Opposed-plunger—
 - 94. Fluid-operated,
 - 95. Cam,
 - 96. Cam and lever,
 - 97. Cam and pitman,
 - 98. Lever,
 - 99. Pitman,
 - 100. Toggle,
 - 101. Toggle and connecting-bar,
 - 102. Endless chain of molds—
 - 103. Continuous-travel,
 - 104. Intermittent-travel,
 - 105. Expanding-mold,
 - 106. Plungers,
 - 107. Chargers,
 - 108. Strikes and trimmers.
 - 11. Die-expressing—
 - 12. Pottery,
 - 13. Detached-block,
 - 14. Screw-ejector,
 - 15. Plunger-ejector—
 - 16. Fluid-operated,
 - 17. Dies—
 - 18. Perforating and ornamenting,
 - 19. Liquid-lubricated,
 - 20. Steam-lubricated.
 - 21. Cutters—
 - 22. Soap,
 - 23. Reciprocating—
 - 24. Horizontally,
 - 25. Rotating—
 - 26. Longitudinal-axis,
 - 27. Transverse-axis,
 - 28. Oscillating,
 - 29. Stationary,
 - 30. Tables,
 - 31. Cleaners.
 - 32. Sanders—
 - 33. Mold—
 - 34. Rotary drum.
 - 35. Molds—
 - 36. Block—
 - 37. Ejectors,
 - 38. Expanding and separable,
 - 39. Linings,
 - 40. Ornamental,
 - 41. Cistern,
 - 42. Fence,
 - 43. Pipe—
 - 44. Expanding and separable,
 - 45. Cores,
 - 46. Pottery,
 - 47. Sarcoophagi and tank,
 - 48. Wall,
 - 49. Centering—
 - 50. Wheel-mounted.
 - 51. Kilns—
 - 52. Indurating,
 - 53. Continuous—
 - 54. Separate-kiln,
 - 55. Perforated-floor,
 - 56. Perforated-partition,
 - 57. Temporary-partition,
 - 58. Common-flue,

* See Definitions of Revised Classes.

**25.—PLASTIC BLOCK AND EARTH-
ENWARE APPARATUS—Contd.**

- Kilns—Continued.**
140. Combined up and down draft—
 141. Reversible,
 142. Horizontally-traveling material.
 143. Vertically-traveling material,
 144. Muffle,
 145. Downdraft—
 146. Muffle-bottom,
 147. Updraft,
 148. Forced-draft,
 149. Fluid-fuel,
 150. Steam-combustion,
 151. Furnaces—
 152. Grates,
 153. Saggers.
- Processes—**
154. Reinforcing and finishing,
 155. Concrete-block type,
 156. Clay type—
 157. Firing—
 158. Road-ballast.

26.—CLOTH-FINISHING.

10. Beetling,
11. Calendering,
9. Cutting lace and looped fabrics.
12. Finishing,
3. Finishing cut-pile fabrics.
3. Folding,
18. Guiding,
4. Napping—
19. Planetary machines.
5. Pressing,
13. Rigging,
6. Shearing,
14. Singeing,
7. Sponging,
8. Stretching,
16. Stretching and drying.

27.—UNDERTAKING.

1. Biers,
2. Burial apparatus—
5. Grave-fillers,
6. Raising and lowering.
3. Coffins—
10. Brackets,
11. Corners,
12. Fasteners,
13. Head-rests,
14. Lids,
15. Life-signals,
16. Lining and coverings,
7. Metallic,
8. Plastic material,
17. Shields,
9. Wooden.
4. Embalming—
18. Apparatus,
19. Processes.

28.—CORDAGE.

2. Banding,
4. Braiding,
24. Braiding-carriers.
25. Braids,
21. Cord and rope machines.
5. Cords and ropes.
6. Covering cord.
34. Doubling—
35. Irregular-feed,
7. Finishing yarn and thread.
27. Fuse and packing machines.
29. Lease-formers.
9. Packaging braid and yarn.
11. Separating rope.
13. Tassels,
33. Tying yarns.
14. Warping,
30. Warping-reeds.
31. Warping stop-motions.
20. Yarn guides and clearers.

29.—METAL-WORKING.*

1. Miscellaneous.
- Special work—**
2. Battery-grid making,
3. Buckle-making,
4. Button-fastener making,
- 4.5. Commuting metal,
5. Cotter-pin making,
6. Crank-shaft making,
7. Eyebolt and hook making,
8. Finger-ring forming and sizing,
9. Fish-hook making,
10. Gem and jewel setting,
11. Hinge making and assembling,
12. Lacing-stud making,
13. Paper-fastener making,
14. Plow and cultivator irons, making,
15. Puddlers' balls, working,
16. Railway-chair making,
17. Sheet-metal and foil manufacture—
18. Processes—
19. Pack manipulation,
20. Spectacle-frame making,
21. Stereotype-plate finishing,
22. Tire upsetting, cutting, punching, etc.,
23. Toothed-cylinder making,
- 23.5. Turbine-blade making,
24. Type finishing and grooving,
25. Umbrella-frame making.
33. **Combined machines—**
- Type of machine—
26. Drill-press,
27. Lathe,
28. Grinding attachment,
29. Pulley and wheel,
30. Planer,
31. Vise, drill, etc.—
32. Anvil-attached,
34. Forging, bending, cutting, and punching,
35. Forging and rolling,
- Turret—
36. Multiple-turret,
37. Stock-turret,
38. Blank-turret,
39. Tool-turret—
40. Rotary tool-holder,
41. Sliding tool-holder,
42. Fluid-operated,
- Cam-operated—
43. Longitudinal turret-axis,
44. Transverse turret-axis,
45. Lever-operated,
46. Rack-and-pinion operated,
47. Screw-operated,
48. Turrets,
- Turret rotating and locking—
49. Frictional and positive,
50. Positive,
- Multiple-tool holder—
51. Laterally-movable stock-holder,
52. Axial tool and transversely-movable slide-rest—
53. Rotary tool-spindle,
54. Longitudinally and transversely movable—
55. Rotary tool-spindle,
56. Oscillating tool,
57. Attachments,
58. Stock and blank feeders—
59. Advancing stock-support,
60. Magazine,
61. Reciprocating-gripper—
62. Sleeve,
63. Roller,
64. Speed-controllers,
65. Carriage stop mechanisms.
66. **Metal-breakers.**
67. **Sawing—**
68. Band-saw,
69. Circular saw—
70. Multiple,
71. Rim-driven,
72. Oscillating saw,
73. Reciprocating saw—
74. Vertical,
75. Hand-driven.
76. **Filing—**
77. File-blank strippers,
78. Files and rasps—
79. Sectional,
80. Holders,
81. Scale removers and preventers.
- Sharpening—**
82. Edge-serrating,
83. Swaging.

29.—METAL-WORKING—Continued.

84. **Assembling—**
85. Axle, pin, and collar presses—
86. Fluid-operated,
- 86.1. Pin inserters and removers—
- 86.2. Pliers,
87. Spoked wheels,
- 87.1. Spring appliers and removers,
88. Staking watches and clocks—
- 88.1. Pliers,
- 88.2. Tube appliers and removers,
89. Work-holders.
90. **Burnishing.**
93. **Cutters—**
106. Lubricators,
103. Rotary—
104. Gang,
105. Inserted-tooth,
96. Inserted blade—
97. Multiple,
98. Angular adjustment,
99. Lateral offset,
100. Vertical offset,
101. Arc,
102. Profiled circular blade.
107. **Machine-chucks and tool-sockets—**
- 107.5. Indexed work-grips,
108. Eccentric,
109. Self-aligning,
110. Tang-end drive,
111. Bevel-closing—
114. Axial draw-screw,
115. Axial thrust-screw,
116. Rotating-ring—
117. Advancing-jaw,
118. Screw-cap—
119. Conical,
120. Screw-ring—
121. Advancing-jaw,
122. Receding-jaw,
123. Sliding-ring,
124. Advancing-jaw,
125. Receding-jaw,
- Cam-closing—
126. Worm and worm-wheel,
127. Bevel pinion and ring,
128. Conical,
129. Lever-closing—
130. Coue,
131. Toggle,
132. Transverse screw-closing—
133. Radial-screw jaw—
134. Bevel pinion and ring,
135. Opposite coupled jaws—
137. Interlocking,
138. Transverse wedged jaw,
139. Longitudinal screw-clamp,
140. Transversely-oscillating jaw,
141. Sockets—
142. Multiple,
143. Wedge,
144. Split,
145. Detent,
146. Indicators,
147. Jaws,
148. **Blanks and processes—**
149. Beams and rails, mechanically capped,
150. Braces and brackets,
151. Bridge-irons,
152. Carriage-irons—
153. Axles,
154. Axle boxes and skeins,
155. Columns and girders,
156. Ferrules, rings, and thimbles,
157. Gas and water fittings—
158. Traps,
159. Gears, pulleys, tires, and wheels,
160. Grilles,
161. Knobs and knob-shanks,
162. Lined pipes and tanks,
163. Musical vibrators,
164. Railway-car irons—
165. Axles,
166. Axle-boxes,
167. Couplings and draw-bars,
168. Wheels,
169. Railway-track irons,
170. Spinners' and weavers' irons—
171. Spinning-rings,
172. Spring-head clips,
173. Springs,
174. Spoked wheels,
175. Turnbuckles,
176. Velocipede-irons,
177. Watches and clocks—
178. Arbors, pinions, and balances,
179. Cases, crowns, and pendants.
- Metal-stock—**
180. Compound—
181. Bars and tubes,
- 182.

* See Definitions of Revised Classes.

29.—METAL-WORKING—Continued.

- Metal-stock—Continued.**
 183. Piles and fagots—
 184. Parallel bars—
 185. Railroad-rails,
 186. Tubular,
 187. Box and scrap,
 187. Tube and plate, interlocked
 joint,
 Processes—
 188. Compound bars and tubes,
 189. Compound plate.

30.—CUTLERY.

1. Animal-shears.
 3. Can-openers.
 21. Fork-guards.
 5. Forks.
 22. Forks and spoons.
 9. Kulves—
 20. Gage,
 8. Hay,
 10. Pocket,
 23. Manicure implements.
 11. Pruning implements—
 24. Fruit-clippers.
 12. Razors.
 25. Blade-holders.
 13. Scissors and shears.
 14. Twine-cutters.
 17. Wire-shears.

31.—DAIRY.

64. Butter—
 65. Cutters,
 66. Processes.
 25. Butter workers and molds.
 67. Cheese—
 68. Cutters,
 69. Processes.
 21. Cheese-hoops.
 26. Cheese-turners.
 22. Cheese-vats and curd-breakers.
 7. Churns—
 9. Double-acting,
 Reciprocating—
 31. Combined lever and crank
 mechanism,
 Crank mechanism—
 29. Multiple-dasher,
 30. Single-dasher,
 32. Foot mechanism,
 33. Hand and foot mechanism,
 Lever mechanism—
 34. Multiple-dasher,
 35. Single-dasher,
 36. Rocking-seat mechanism,
 37. Without operating mecha-
 nism,
 Rotary—
 38. Diagonal-dasher,
 Horizontal double-dasher—
 40. Concentric shafts,
 41. Parallel shafts,
 39. Horizontal single-dasher.
 Vertical double dasher—
 43. Concentric shafts,
 44. Parallel shafts,
 42. Vertical single dasher,
 17. Vibrating,
 18. Working body.
 27. Cream-pumps.
 63. Drink-mixers.
 75. Milk-cans—
 76. Breasts,
 77. Closures—
 78. Locking—
 79. Key,
 80. Rotary,
 81. Coolers—
 82. Internal-tube,
 83. Jacketed,
 84. Ventilated,
 85. Creaming—
 86. Agitators,
 87. Vacuum,
 88. Floats.
 70. Milking-machines—
 71. Catheter—
 94. Suction.
 Compression—
 95. Fluid pulsations,
 96. Mechanical.

31.—DAIRY—Continued.

- Milking-machines—Continued.**
 73. Suction—
 97. Automatic cut-off.
 98. Intermittent—
 99. Pulsators,
 Suction and compression—
 100. External pressure pulsations.
 101. External suction pulsations.
 102. Teat-cups.
 13. Milk-stools.
 89. Milk-treating—
 90. Aerating,
 91. Circulation,
 93. Cooling,
 92. Vats.
 14. Pails and strainers.
 28. Tables and racks.

32.—DENTISTRY.

1. Articulators.
 12. Bridgework.
 13. Disks and holders.
 14. Engines—
 21. Bracket-supports,
 23. Friction-gear,
 22. Standard-supports.
 3. Foil-condensers.
 15. Handpieces—
 11. Angle attachments.
 16. Jaw-braces.
 17. Matrices.
 4. Mechanical.
 5. Miscellaneous.
 6. Molds.
 27. Mouth-mirrors.
 28. Obtunders.
 7. Operative.
 8. Pluggers—
 18. Air,
 24. Angle attachments,
 25. Hand-operated,
 26. Power-operated.
 19. Regulators and spacers.
 20. Rubber-dam clamps.
 33. Saliva-ejectors.
 9. Teeth—
 32. Filling,
 29. Metal-crown,
 30. Porcelain-crown.
 10. Tools—
 51. Burs,
 34. Forceps.

33.—GEOMETRICAL INSTRUMENTS.*

1. Miscellaneous.
 2. Apparel—
 3. Footwear—
 4. Laying out—
 5. Patterns,
 6. Processes,
 7. Leveling feature,
 8. Stand-supported—
 9. Skirt—
 10. Platform,
 11. Laying out—
 12. Patterns and charts—
 13. Perforated,
 14. Adjustable—
 15. Conforming,
 16. Adjustable,
 17. Processes.
 18. Scribes—
 19. Graduating,
 20. Sight-line controlled,
 21. Curved-surface—
 22. Pantographic,
 23. Pantographic—
 24. Multiplane,
 25. Parallelogram type,
 26. Compound curved and straight
 line,
 27. Curved-line—
 28. Lens,
 29. Stair,
 30. Ellipsographs—
 31. Right-angle guides,
 32. Straight-line—
 33. Clapboard,
 34. Ink—
 35. Traveling-markers—
 36. Rotary,
 37. Rotary markers—
 38. Blank-space,
 39. Blank-space,
 40. Set-shift,

33.—GEOMETRICAL INSTRUMENTS—Continued.**Scribes—Continued.**

41. Parallel-line—
 42. Edge-guided—
 43. Bevel-set,
 44. Multimarkers,
 45. Machine type.
 46. Light-ray type—
 47. Gun-sights—
 48. Ordnance—
 49. Automatic gun-movement
 compensators,
 50. Firearm-telescope type,
 51. Multisight-line,
 52. Particular surfaces,
 53. Variable—
 54. Rotatable series,
 55. Vertically, laterally, and
 folding,
 56. Vertically and laterally,
 57. Vertically and folding,
 58. Vertically,
 59. Laterally,
 60. Track leveling and gaging,
 61. Solar—
 62. Time-computing,
 63. Multisight-line—
 64. Common view-point,
 65. Relative angular and sliding
 adjustment,
 66. Relative angular adjustment,
 67. Chart and straight-edge features,
 68. Angular and sliding adjust-
 ment,
 69. Vertical and horizontal angle
 measurers,
 70. Vertical-angle measurers—
 71. Distance-finding feature,
 72. Horizontal-angle measurers,
 73. Levels,
 74. Rods and targets.
 75. Straight-edge type—
 76. Base-attached—
 77. Perspective-plotters,
 78. Rotary-base,
 79. Universal parallelism,
 80. Both ends connected,
 81. Set-shift,
 82. Clapboard-marking,
 83. Paper-tearing,
 84. Shaft aligning and leveling,
 85. Wall guides and plumbs,
 86. Cord—
 87. Chalking feature,
 88. Leveling feature—
 89. Square type,
 90. Multiplane,
 91. Intercontrolled bevel-blades,
 92. Square and hypotenuse,
 93. Square and pivoted straight-
 edge—
 94. Sliding,
 95. Square and sliding non-pivoted
 straight-edge,
 96. Square and fixed straight-edge,
 97. Pivoted straight-edge and slid-
 ing non-pivoted,
 98. Multipivoted straight-edges,
 99. T-head and pivoted straight-
 edge—
 100. Locking,
 101. Sliding,
 102. Sliding pivotal adjustment,
 103. Sliding non-pivotal adjustment,
 104. Polygons,
 105. Folding-rule type—
 106. Opposed contact attachments,
 107. Rules and rulers—
 108. Parallel—
 109. Rolling,
 110. Set-shift,
 111. Scale-markings,
 112. Squares—
 113. Scale-markings,
 114. Separable joints,
 115. Pivot-joints—
 116. 90° limit—
 117. Locking,
 118. 180° limit—
 119. Locking,
 120. Locking.
Area-integrators—
 121. Planimeters,
 123. Electrical,
 124. Rolling-contact.
Distance—
 125. Sounding,
 126. Fabric and cord—
 127. Bolt,
 128. Rolling-contact—
 129. Cutting feature—
 130. Predetermined stop or
 signal,
 131.

* See Definitions of Revised Classes.

33.—GEOMETRICAL INSTRUMENTS—

Continued.

- Distance—Continued.
- Fabric and cord—Continued.
- Rolling-contact—Continued.
- 132. Predetermined stop or signal,
- 133. Computing,
- 134. Non-feeding,
- 135. Cutting feature,
- 136. Predetermined stop or signal,
- 137. Tape—
- 138. Reel feature—
- 139. Dial—
- 140. Computing,
- 141. Rolling-contact—
- 142. Computing,
- 143. Opposed contacts—
- 144. Track—
- 145. Leveling feature,
- 146. Dial,
- 147. Dial—
- 148. On pivoted type,
- 149. Pivoted—
- 150. Proportional,
- 151. Point-parallelizing,
- 152. Extensible-leg,
- 153. Joints and setters—
- 154. Screw-adjustment—
- 155. Tangent,
- 156. Median,
- 157. Median handle,
- 158. Beam-trammel type—
- 159. Screw-adjustment,
- 160. Pivoted-trammel,
- 161. Extensible-rule type,
- 162. Adjustable-wedge,
- 163. Screw-adjustment—
- 164. Micrometer—
- 165. Preliminary setting,
- 166. Particular indicator,
- 167. Attachments,
- 168. Fixed,
- 169. Single or offset contact—
- 170. Screw-adjustment—
- 171. Pivotal,
- 172. Dial,
- 173. Attachment type.
- Gages—
- 175. Conformer—
- 176. Flexible-band,
- 177. Curve-ruler type,
- 178. Circular size—
- 179. Flexible-band,
- 180. Collocating—
- 181. Machine parts—
- 182. Rolls,
- 183. Type-writer,
- 184. Watch,
- 184.5. Printing members—
- 184.6. Hand-stamp,
- 185. Tool—
- 186. Shears,
- 187. Clapboard,
- 188. Shingle,
- 189. Point-markers—
- 190. Button or buttonhole,
- 191. Center,
- 192. Proportional,
- 193. Axle,
- 194. Door and window,
- 195. Hoof,
- 196. Millstone,
- 197. Mortise,
- 198. Paper-tearing,
- 199. Screw-thread,
- 200. Spectacle,
- 201. Tool—
- 202. Saw,
- 203. Wheel,
- Direction-indicators—
- 205. Bore-hole testers,
- 206. Levels and plumbs—
- 207. Special supports,
- 208. Folding and extensible,
- 209. Liquid-column,
- 210. Compound bubble and pendulum,
- 211. Bubble—
- 212. Multi-indicating bubble,
- 213. Adjustable—
- 214. Adjusting means,
- 215. Pendulum—
- 216. Bob type—
- 217. Reel feature,
- 218. Adjustable—
- 219. Adjusting means,
- 220. Checking feature,
- 221. Securing feature,
- 222. Magnetic compasses—
- 223. Liquid,
- 224. Deviation-compensators,
- 225. Deviation-preventers.

34.—DRIERS.

- 1. Absorbent.
- 2. Baffles and screens.
- 3. Condensers.
- Cylinder—
- 4. External.
- Internal—
- 5. Rotary horizontal,
- 6. Rotary inclined,
- 7. Stationary horizontal,
- 8. Stationary inclined,
- 9. Vertical.
- 10. Disk and hopper.
- 11. Elevator.
- 12. Endless carrier.
- 13. Endless scraper.
- Floors—
- 14. Fixed,
- 15. Tilting-section.
- 16. Forms and platens.
- 17. Frames and trays.
- 18. Heaters.
- 19. Houses and kilns.
- 20. Lath and chain.
- 22. Pan and boiler.
- 23. Pan and scraper.
- 21. Pans.
- 24. Processes.
- 25. Push-bar.
- 26. Raeks and stands.
- Reels—
- 27. Skein,
- 28. Tray-carrier,
- 29. Winding.
- 30. Retort.
- 31. Rolls.
- 32. Rotary disk.
- 36. Shaft and cylinder.
- 37. Shaft and shelf.
- Shafts—
- 33. Inclined,
- 34. Vertical,
- 35. Zigzag.
- 38. Shaking.
- 39. Shelf and tray.
- 40. Sliding rack.
- 41. Solar.
- 42. Spiral.
- 43. Stirrers.
- 44. Trough and beater.
- 45. Trough and screw.
- Truck and rail—
- 46. Horizontal,
- 47. Inclined.
- 48. Web.

35.—EDUCATIONAL APPLIANCES.

- 1. Alphabet-blocks.
- 2. Arithmetic.
- 3. Astronomy.
- 15. Blackboards.
- 13. Cryptography.
- 5. Globes.
- 6. Maps.
- 12. Miscellaneous.
- 16. Models—
- 17. Design.
- 8. Penmanship.
- 9. Reading.
- 14. Slate-mufflers.
- 10. Slates.

36.—BOOTS, SHOES, AND LEGGINGS*

- 1. Miscellaneous.
- 1.5. Boots or shoes and detachable leg-covers.
- 2. Leggings and galters.
- 10. Inside slippers.
- 11. Moccasins.
- 3. Ventilated.
- 4. Rubber—
- 5. Overshoes—
- 6. Heelless,
- 7. Retainers,
- 8. Heel-engaging.
- 9. Felt and fabric.
- 12. Sole-attaching means—
- 13. Wooden soles,
- 14. Rubber,
- 15. Detachable soles,
- 16. Outturned uppers,
- 17. Welt-connected,

36.—BOOTS, SHOES, AND LEGGINGS—

Continued.

- Sole-attaching means—Contd.
- 18. Single-faced stitch,
- 19. Through-and-through,
- 20. Processes,
- 21. Seams,
- 22. Prepared soles,
- 23. Fasteners—
- 24. Peg.
- Soles—
- 25. Fleece slipper,
- 26. Spring-heel,
- 27. Cushion—
- 28. Pneumatic,
- 30. Laminated,
- 31. Sectional,
- 32. Rubber,
- 33. Wooden.
- Heels—
- 34. Cushion—
- 35. Detachable,
- 37. Internal-cushion,
- 38. Metallic-spring,
- 39. Rotary,
- 40. Metallic-shell—
- 41. Detachable,
- 42. Detachable.
- Insoles—
- 43. Laminated.
- Uppers—
- 44. Corded,
- 45. Blanks—
- 46. Integral vamp and quarters—
- 47. Seamless,
- 48. Closures—
- 50. Elastic,
- 51. Buttonhole-pieces,
- 52. Slit stays,
- 53. Tongue-pieces,
- 54. Linings,
- 55. Pulls,
- 56. Seams, stays, and pipings,
- 57. Metallic seam-stiffener.
- Counter-stiffeners.
- 68. Counter and heel supports.
- 69. Pads and foot-supporters.
- 70. Shanks.
- 71. Toe caps and tips.
- 72. Welts and rands.
- Antislipping devices—
- 59. Pole-climbers,
- 60. Disengaging,
- 61. Detachable—
- 62. Sandal,
- 63. Clamping—
- 64. Screw,
- 65. Attached fasteners,
- 66. Calks.
- 67. Garment-protectors.
- Protectors—
- 70. Sole and heel—
- 71. Spur-attached,
- 72. Embedded.

37.—EXCAVATING.

- 11. Diggers.
- Dredgers—
- 18. Anchoring,
- 14. Clam-shell—
- 30. Buckets,
- 13. Scouring—
- 36. Hydraulic.
- Excavators—
- 24. Chain and bucket—
- 23. Buckets,
- 16. Dipper,
- 9. Hydraulic—
- 46. Pipe-supports,
- 47. Rotary-head,
- 44. Steam vacuum,
- 45. Suction-pipe mouthpieces,
- 52. Mole-plows,
- 53. Pipe and cable laying,
- 25. Flow and carrier—
- 48. Side-delivery plow,
- 10. Rammers,
- 26. Screw—
- 27. And carrier,
- 17. Wheel—
- 28. And belt,
- 29. And carrier.
- Machine-picks.
- 50. Mining systems.
- 39. Miscellaneous.
- 40. Scoops—
- 54. Buckets,
- 41. Railway side.

* See Definitions of Revised Classes.

37.—EXCAVATING—Continued.

5. Scrapers
19. Distant-power,
22. Railway side,
42. Sledged—
7. Wheeled—
49. Annular blade-carrier.
6. Self-loading carts—
32. Carrier,
33. Scoop,
34. Wheel.
35. Snow-road machines.
20. Treating quicksands.

38.—FELT AND FUR.

7. Fabrics.
8. Felting-machines.
9. Flock-cutting.
10. Forming bats.
11. Fulling.
12. Furs and pelts.

39.—GATES.*

1. Miscellaneous.
2. Successive-barrier—
3. Turnstiles.
4. Flood.
5. Flush—
6. With operator.
7. Motor-driven—
8. Fluid-pressure motor.
9. Mechanically-operated—
10. Compound,
11. Multiple-movement—
- On vertical pivot—
- With horizontal translation and vertical adjustment,
13. And series of horizontal pivots,
14. With vertical adjustment,
15. And on horizontal pivot,
16. With horizontal translation,
17. Automatic-return—
18. Load-restrained,
19. Track-guard—
20. Double-acting,
21. Lateral-barrier,
22. Vertically-pivoted—
23. With weight,
24. Horizontally-pivoted,
25. Horizontal translational movement,
- Gate and latch—
26. Gate folding on vertical pivots,
27. Gate folding on horizontal pivots,
28. Gate vertically pivoted—
- Interconnected,
30. Pivot intermediate,
31. Gravitational,
32. Hinge-stile operated—
33. Geared,
34. Sheaved,
35. Crank-arm,
36. Rear-extension,
37. Intermediately-connected operator—
- Lever—
39. Toggle,
40. On hinge-post,
41. Flexible,
42. Gate horizontally pivoted—
43. Pivot transverse—
44. With weight,
45. Gate having translational movement—
- Curvilinear,
47. Interconnected,
48. Operator connected at ends,
49. Folding on vertical pivots,
50. Folding on horizontal pivots,
51. Vertically-pivoted—
- Interconnected,
53. Pivot intermediate,
54. Jump,
55. Gravitational—
56. Movable-pivot—
57. Lever on hinge-post,
58. Intermediately connected operator—
- Toggle,
59. Horizontally-pivoted—
61. Interconnected—
62. Bar.

39.—GATES—Continued.

- Mechanically-operated—Contd.**
63. Translational-movement—
64. Curvilinear,
65. Horizontal—
66. Interconnected,
67. Gravitational—
68. Sectional-track,
69. Bar and wheel moved,
70. Operator connected at ends,
71. Lever-operator—
72. Loosely-connected,
73. Toggle.
74. Tension.
75. Compound.
76. Multiple-movement—
- On two axes—
77. With horizontal translation,
78. With vertical adjustment,
- On vertical axis—
79. With horizontal translation and vertical adjustment,
80. And series of horizontal pivots
81. With vertical adjustment,
82. And on horizontal pivot,
83. With horizontal translation.
84. Automatic-return.
85. Folding on vertical pivots.
86. Folding on horizontal pivots.
87. Vertically-pivoted.
88. Horizontally-pivoted—
89. Picket-shaft,
90. Falling-panel,
91. Pivot transverse—
92. Bar.
93. Translational—
94. Curvilinear,
95. Horizontal.
96. Front-end supports.

40.—CARD, PICTURE, AND SIGN EXHIBITING.*

1. Exhibitors.
- 1.5. Badges—
- 1.6. Changeable-reading.
- 124.5. Memorial tablets.
2. Checks, labels, and tags—
3. Animal-markers,
4. Bottle,
5. Display-box labels,
6. Door-knob and drawer-pull,
7. Hat,
8. Changeable-reading—
9. Baggage-checks,
27. Reinforced,
10. Holders—
12. Cornice,
11. Clip,
13. Hinged-clamp,
14. Hinged-clamp and spur,
15. Lock,
16. Slide,
17. Slide and detent—
18. Limited-movement,
19. Tubular,
20. Fasteners—
21. Band,
22. Barbed,
23. Clasp,
24. Pin-loop,
25. Spur,
26. Spring-hook.
107. Calendars—
109. Charactered-slide,
110. Character-markers,
111. Rotatable—
112. Clutch take-up,
113. Disk,
114. Single-axis—
115. Disk,
116. Single reel and web,
117. Double reel and web,
118. Endless,
119. Hinged leaves,
121. Tear-off tablets,
122. Card-pockets,
123. Printing arrangement,
120. Stands.
108. Pencil attachments.
28. Changeable exhibitors—
105. Train-order holders,
29. Aerostatic,
52. Electrically-controlled—
53. Electromotor-operated,
54. Magneto-clutch let-off,
55. Magneto-clutch take-up,
56. Obstacle-controlled circuit-closers—
57. Electromotor-operated,
58. Magneto-clutch let-off,
59. Magneto-clutch take-up,

40.—CARD, PICTURE, AND SIGN EXHIBITING—Continued.**Changeable exhibitors—Contd.**

30. Motor-operated—
31. Double reel and web,
32. Endless,
33. Rotatable—
34. Disk,
35. Hinged leaves,
36. Shifters,
37. Fluid-operated—
38. Double reel and web,
39. Rotatable—
40. Illuminated,
41. Axle-operated—
42. Double reel and web,
43. Endless,
44. Rotatable,
45. Obstacle-operated—
46. Double reel and web—
47. Clutch take-up,
48. Endless,
49. Rotatable,
50. Shifters,
51. Pendulum-operated,
60. Door-operated,
61. Inscription-covers—
62. Sliding,
63. Interchangeable plates—
64. Sliding,
65. Sliding plates—
66. Bolt-operated,
67. Pivoted plates,
68. Rotatable—
69. Clutch take-up,
70. Disk—
71. Clutch take-up,
72. Hinged leaves—
73. Clutch take-up,
74. Radially movable leaves—
75. Clutch take-up,
76. Multiple-drum controllers,
77. Illuminated,
78. Shifters—
79. Reciprocating,
80. Revolving,
81. Revolving pack-case,
82. Single reel and web—
83. Reel-cabinets—
84. Revolving,
85. Spring-rewind,
86. Double reel and web—
87. Clutch take-up—
88. Reversible-clutch,
89. Spring-rewind—
90. Clutch take-up,
91. Clutch let-off—
92. Obstacle-trip,
93. Reversing-gears—
94. Clutch take-up,
95. Intergeared reels,
96. Endless—
97. Hinged leaves,
98. Radial leaves,
99. Clutch take-up,
100. Folding web and reel—
101. Clutch take-up,
102. Hinged leaves—
103. Leaf-releasers,
104. Leaf-turners,
106. Couplings.
- Signs—**
125. Dummies,
127. Aerostatic,
130. Illuminated—
131. Lamp attachments,
132. Lamp-boxes—
133. Perforated-face,
134. Luminous-paint,
138. Vibratory—
139. Motor-operated,
135. Multiple-layer,
136. Embossed, molded, rolled, or stamped,
137. Variable-reading,
128. Hanging,
129. Portable,
140. Interchangeable letters—
141. Glass,
142. Fasteners—
143. Prong,
144. String,
145. Post attachments.
- Card-racks.**
- 145.1. Picture-hangers—
- 145.7. Plaque-retainers,
- 145.2. Adjustable—
- 145.3. Cord—
- 145.4. Pawl-and-ratchet,
- 145.5. Steps,
- 145.6. Slide-and-clamp,
- 145.8. Retaining-cord.

* See Definitions of Revised Classes.

40.—CARD, PICTURE, AND SIGN EXHIBITING—Continued.

146. Picture stands and supports—
147. Illuminators,
148. Frames,
149. Single-blank—
150. Braces,
151. Wire.
- Picture-frames—**
152. Cord or wire,
153. Embossed, molded, rolled, or stamped,
154. Extensible, folding, or knock-down,
155. Card or picture retainers,
156. Cover-retainors,
157. Mats, mounts, and backs—
158. Pocketed,
159. Relief-picture.

41.—ORNAMENTATION.*

1. Apparatus and appliances—
2. Imitation-flower making—
3. Stems and vines,
- 2.5. Stencil-making.
4. Painters—
5. Palettes and mixing-plates,
- 5.5. Graining,
6. Mixing-charts,
7. Metallic-leaf applying—
8. Magazine hand-tools,
9. Etching.
- Ornamental forms—**
10. Collapsible,
11. Floral,
12. Imitation flowers—
13. Special feature,
15. Imitation rees,
16. Imitation feathers.
- Surface type—**
17. Miscellaneous metallic,
19. Striated effects,
20. Transformation effects,
21. Diaphanous,
22. Diaphanous face, opaque backing,
23. Mosaic,
24. Relief and intaglio—
25. Reproducing—
- 25.5. Preparing make-readys,
26. Pigment—
27. Treating photographs—
28. Clearing feature,
29. Masking,
30. Filled recesses—
31. Applied outlines,
- 31.5. Copying—
- 31.6. Surfaces or compositions,
32. Plaques and surfaces,
33. Transfers
34. Applied objects—
35. Inlaid,
36. Particles,
37. Metallic leaf,
38. Removing portions of coating—
- 38.5. Stencil-making—
- 38.6. Sheets or compositions,
39. Abraded and roughened—
40. Chipping with adhesive,
41. Chemical—
- 41.5. Planographic printing surface,
42. Etching—
43. Resist preparation,
45. Designs without resist,
46. Mechanical negatives.

42.—FIREARMS.*

1. Miscellaneous.
52. Can-cuns.
53. Pistol-swords.
54. Toy—
56. Liquid-throwing,
57. Ribbon-fed,
58. Revolvers,
55. Cannon.
- Breech-loading—**
- Automatic—
- Gas-operated,
- Recoil-operated,
- Spring-motor operated,
- Breech-hinged barrel,
- Pauoet breech-block,

42.—FIREARMS—Continued.

- Breech-loading—Continued.**
10. Forward-sliding barrel—
11. Magazine,
12. Side-sliding barrel—
13. Parallel-pivot,
14. Sliding breech-block—
15. Magazine,
16. Rearward—
17. Magazine—
18. Box,
19. Rotary,
20. Pivoted-hammer—
21. Magazine—
22. Box,
25. Extractors,
23. Vertical-mortise—
24. Magazine,
26. Swinging breech-block—
27. Magazine,
28. Downward and rearward—
29. Magazine,
30. Laterally forward,
31. Laterally rearward,
32. Parallel-pivot—
33. Magazine,
34. Rearward and downward—
35. Magazine,
36. Upward and forward—
37. Magazine,
38. Upward and rearward—
39. Magazine,
40. Upward-tilting breech—
41. Looks—
42. Single-trigger,
43. Cocking devices,
44. Barrel-locks—
45. Hammer-cocking,
46. Extractors,
47. Ejectors—
48. Hammer,
7. Grip magazine-pistols,
6. Magazine,
49. Magazines—
50. Box.
- Muzzle-loaders.**
- Revolvers—**
60. Magazine-fed cylinder
61. Muzzle-loaders,
62. Swinging-cylinder,
63. Hinged-barrel—
64. Barrel-catches,
65. Looks—
66. Safety devices,
67. Cylinder-stops,
68. Shell-extractors.
- Locks—**
69. Safety.
- Stocks—**
72. Auxiliary,
73. Adjustable,
74. Cushioned,
75. Stock and barrel fastenings.
- Barrels—**
77. Auxiliary,
78. Rifling,
79. Choke devices.
83. Nipples and guards.
84. Electric appliances.
85. Gun-trimmings.
86. Bayonets.
- Magazine-chargers—**
88. Packs—
89. Revolver.
- Implements—**
91. Cleaning—
92. Rod-joints,
93. Intrenching,
94. Rests,
95. Shell-extracting.

43.—FISHING AND TRAPPING.

2. Decoys.
35. Fishing—
28. Bait and tackle holders,
3. Fishways,
4. Floats,
6. Harpoons and spears,
7. Hooks—
30. Artificial-bait,
31. Spring-actuated,
9. Nets and seines,
11. Oyster-dredges,
12. Oyster rakes and tongs,
16. Rods—
37. Reel-mounts,
36. Reel-section,
17. Sinkers.

43.—FISHING AND TRAPPING—Contd.

- Insect-destroyers—**
1. Catchers,
5. Fumigators,
14. Powder-dusters.
- Traps—**
19. Cage,
34. Electrical,
20. Fish,
21. Impalement,
22. Insect—
32. Mechanical,
23. Jaw,
24. Self and ever set,
25. Sporting,
26. Victim-set,
27. Wire-choker.

44.—FUEL.

1. Artificial—
7. Fluid—
8. Carbureting compositions.
2. Fire-kindlers—
5. Absorbers,
6. Automatic.
3. Peat-machines.
4. Purifying coal.

45.—FURNITURE.

- Book and music holders—**
57. Base-supported—
80. Adjustable,
81. Rotary,
59. Body-supported,
60. Bookstands—
85. Folding,
86. Leveling,
58. Bracket-supported—
82. Adjustable,
61. Leaf-holders,
83. Leaf-rests,
62. Music-stands—
121. Portable,
64. Portfolio.
- Bookcases—**
53. Adjustable shelf-partitions,
54. Adjustable shelves and shelf supports,
55. Hanging shelves,
78. Knockdown,
79. Revolving,
56. Roller-shelves.
- Bureaus—**
88. Knockdown,
89. Carpet-stretchers.
- Covers.**
- Desks—**
90. Attachments,
91. Lids—
92. Flexible,
69. Portable,
93. Sectional,
70. Table.
- Drawers—**
77. Guides,
94. Locking devices,
95. Swinging,
96. Tilting.
- Drawing-boards.**
- Easels.**
24. Fabric-stretching frames—
130. Painters'.
2. File-cabinets—
3. Revolving.
4. File-racks.
13. Hat and coat racks.
15. Insect-guards.
16. Kitchen-cabinets.
18. Mirrors—
97. Bracket,
98. Hand,
99. Multiple,
100. Stand.
- Packing furniture.**
- Provision-safes—**
- Evaporative—
132. External,
133. Internal,
134. Porous-wall,
102. Knockdown,
103. Revolving,
104. Window.
- Screens—**
105. Folding.
- 106.

* See Definitions of Revised Classes.

45.—FURNITURE—Continued.

28. Soap-holders.
31. Tables.
 - Adjustable—
 109. Angularly,
 110. Angularly and vertically,
 74. Folding,
 111. Vertically,
 75. Attachments,
 9. Extension—
 112. Center,
 113. End,
 114. Flexible-top,
 115. Slides,
 11. Folding—
 116. Sectional-top,
 122. Game,
 17. Kitchen,
 46. Lap,
 47. Leaf-supports,
 48. Leg fastening and bracing,
 117. Pedestals,
 26. Self-waiting,
 27. Sewing-machine—
 120. Covers,
 50. Surgical,
 51. Wall.
32. Towel racks and stands.
52. Type-writer cabinets.
33. Umbrella-stands.
36. Wall-protectors.
37. Wardrobes—
118. Knockdown.
38. Wash-stands—
119. Reservoir.

46.—GAMES AND TOYS.

72. Amusement elevators.
71. Amusement-houses.
73. Arenas.
4. Balls and bats.
43. Baseball.
6. Billiard appliances—
7. Balls,
8. Chalk-cups,
9. Cues.
10. Cue-tip fasteners,
11. Cushions,
12. Tables,
13. Table-levelers.
66. Bowling-alley—
54. Pin-setting apparatus.
14. Buzzes and whirligigs.
55. Card-game accessories.
56. Chance devices—
57. Ball.
15. Croquet.
68. Dumb-bells and clubs.
58. Duplicate-whist apparatus.
69. Exercising-machines.
- Game apparatus—
59. Aerial projectiles—
60. Peg and pocket,
61. Surface projectiles—
62. Longitudinal.
21. Game-boards—
63. Chance-controlled,
64. Checkered surfaces.
65. Game-pieces.
22. Hobby-horses.
24. Lawn-tennis.
25. Playing-cards.
41. Puzzles and magic.
27. Roundabouts.
53. Skaters' appliances.
50. Skates—
51. Roller.
52. Skate-wheels.
30. Skipping-ropes.
67. Snow-shoes.
31. Soap-bubble pipes.
32. Spinning-tops.
70. Theater appliances.
35. Toy building-blocks.
36. Toy money-boxes.
37. Toys—
49. Electric,
40. Figure—
45. Wheeled,
46. Sounding—
47. Wheeled,
48. Wheeled.
38. Trundles and hoops.

47.—TREES, PLANTS, AND FLOWERS.

15. Blanching.
17. False stems.
18. Flower-holders.
19. Flower-pots.
21. Garden-beds.
6. Grafting.
22. Hand-screens.
23. Hanging baskets.
13. Hedge-training.
7. Hop culture.
24. Lawn-vases.
27. Plant frames and houses.
25. Plant-stands—
26. Revolving.
28. Root-guards.
29. Sap-buckets.
11. Sap-spouts.
30. Seed-testers.
31. Stays and props.
32. Strawberry growing.
34. Transplanting-pots.
35. Trap-belts.
36. Treatment—
37. Implements.
33. Tree-covering.
12. Trellises.
- Trunk-guards—
38. Cattle,
39. Vermin.
40. Turpentine-gathering.
41. Window-gardens.

48.—GAS. HEATING AND ILLUMINATING.*

- Acetylene—
1. Generation and liquefaction,
2. Generator and holder,
3. Generator and mixer,
- Generators—
4. Water-feed—
5. Holder-operated—
- Series—
6. Automatic-switch,
7. Cells-series,
8. Gasometer and high-pressure holder,
9. Interior-valve,
10. Rotary-cylinder,
11. Underfeed,
12. Valveless—
13. Displacer,
14. Flexible-tube,
15. Generator-supported,
16. Siphon,
17. Tilting,
18. Ebb-and-flow—
- Series,
19. Cells-series,
20. Concentric,
21. Series,
22. Cells-series,
23. Capillary—
24. Adjustable,
25. Percolating—
26. Pressure-valves,
27. Expansible carbid-container,
28. Expansible water-holder,
29. Inexpansible gas-holder and water-feed,
30. Oscillating,
31. Rotary-cylinder,
32. Rotary-grate,
33. Underfeed,
34. Interlocking devices,
35. Pressure-valves,
36. Carbid-feed—
37. Apron or belt,
38. Cock,
39. Dip—
40. Cells-series,
41. Flap-valve,
42. Hand—
43. Dip,
44. Measured charges—
45. Cartridges,
46. Rotary-carrier—
47. Vertical,
48. Stationary,
49. Piston,
50. Plate-valve,
51. Pop-valve—
52. Bell-operated—
- 53.1. Bell and holder combined,
- 53.2. Diaphragm-operated,
- 53.3. Float-operated,
54. Screw,
55. Slide-valve,

48.—GAS. HEATING AND ILLUMINATING—Continued.

- Acetylene—Continued.
- Generators—Continued.
58. Valves, gas and water-feed,
56. Automatic safety escape,
57. Sludge-remover,
59. Carbid-cartridges—
60. Conglomerate.
61. Generators—
- Hydrogen—
114. Series,
115. Carbureter—
116. Air,
117. Floating-oil,
118. Cupola,
- 118.1. Retort,
- 118.2. Cupola—
62. Coal, oil, and water,
71. Coal and oil,
72. Coal and water,
73. Producers,
76. Coal,
77. Water—
78. Carbureter—
79. Fixer,
80. Retort,
81. Oil-gas,
82. Up-and-down run—
83. Interlocking valves,
85. Carbon-monoxid,
75. Oil and steam injected,
63. Air and steam injected—
64. Superheated,
65. Electric,
66. Rotary-bottom,
67. Water-jacket—
68. Rotary-bottom,
69. Water-seal pit,
74. Refractory filling,
- Fuel-agitating—
- 85.1. Movable-wall,
- 85.2. Stirrer,
86. Chargers,
87. Accessories,
89. Retort—
98. Coal, oil, and water,
99. Coal and water,
100. Coal and oil,
101. Coal,
102. Oil—
103. Electric-heater,
104. Jet-mixers,
105. Steam-injected,
106. Automatic-feed,
107. Air-injected,
108. Water—
109. Carbureter,
110. Oil-gas,
111. Wood—
112. Oil,
92. Metal-bath,
93. Oil and gas injected,
94. Oil and steam injected—
95. Air,
96. Carbureter,
90. Domestic plants,
113. Furnaces,
- 118.5. Portable.
119. Retorts—
120. Compound,
121. Rotary,
122. Inclined,
123. Vertical,
124. Lids—
125. Rotary,
126. Attachments,
127. Cleaning.
- Natural.
- Carbureters—
144. Regulating,
145. Series,
146. Fixer,
147. Heater—
148. Air,
149. Oil-feed—
150. Multiple-supply,
- 150.1. Multiple-jet—
- 150.2. Progressive,
- 150.3. Float-valves,
151. Pump,
152. Rotary,
153. Spray,
- 154.1. Station-controlled valve,
155. Atomizers—
- 155.1. Constant-level—
- 155.2. Automatic-dilution,
156. Capillary—
157. Spiral-passage,
158. Vertical-screen,
159. Zigzag-passage,
160. Gravity,
161. Lamps—
162. Gravity,

* See Definitions of Revised Classes.

48.—GAS. HEATING AND ILLUMI-

NATING—Continued.

- Carbureters—Continued.
- 163. Osmotic,
 - 164. Pivoted—
 - 165. Revolving,
 - 166. Submerged-blast—
 - 167. Coil,
 - 168. Surface—
 - 169. Float,
 - 128. Purifiers—
 - 129. Washer and dry purifier,
 - 130. Washer and scrubber—
 - 131. Float,
 - 132. Reciprocating,
 - 133. Rotary—
 - 134. Vertical,
 - 135. Spray—
 - 136. Rotary,
 - 137. Boxes,
 - 138. Condensers,
 - 139. Trays,
 - 140. Separators—
 - 141. Centrifugal,
 - 142. Float-valve,
 - 143. Revivifying.
 - 170. Center and by-pass valves,
 - 171. Dip-pipes—
 - 172. Valves.
 - 173. Exhausters.
 - 174. Holders—
 - 175. High-pressure safety escape,
 - 176. Bell and tank—
 - 177. Sectional-bell,
 - 178. Collapsible,
 - 179. Tank.
 - 180. Mixers—
 - 181. Bell and tank—
 - 182. Anterior,
 - 183. Posterior,
 - 184. Diaphragm,
 - 185. Gravity,
 - 186. Pump,
 - 187. Rotary-drum—
 - 188. Anterior,
 - 189. Posterior.
 - 190. Distribution—
 - 191. Regulating pressure,
 - 192. Safety devices,
 - 193. Leakage—
 - 194. Preventing,
 - 195. Odorizers.
 - 197. Processes—
 - 198. Hydrogen—
 - 199. Carbureting,
 - 200. Coal, oil, and water,
 - 201. Coal and oil,
 - 202. Coal and water,
 - 203. Producer,
 - 204. Water—
 - 205. Carbureting,
 - 206. Continuous,
 - 207. Down-run,
 - 208. Up-and-down run,
 - 209. Wood,
 - 210. Coal,
 - 211. Oil—
 - 212. Air-injected,
 - 213. Gas-injected,
 - 214. Oil and steam injected—
 - 215. Air,
 - 216. Acetylene—
 - 217. Slow,
 - 218. Treatment of calcium carbide,
 - 219. Carbureting,
 - 220. Purifying.
 - Compositions—
 - 224. Purifying.

49.—GLASS.*

- 1. Combined machines—
- 2. Incandescent-lamp making,
- 3. Sheet and plate making—
- 4. Flattening and annealing,
- 5. Charging, cutting, and molding,
- 6. Shaping and cutting,
- 7. Reheating and reshaping,
- 8. Pressing and blowing—
- 9. In separate molds—
- 10. Internal press-mold,
- 11. Descending mold-bottom,
- 12. Casting and blowing—
- 13. In separate molds.
- Miscellaneous.
- 16. Pin-heading.
- Drawing—
- 17.1. Cylinders.

49.—GLASS—Continued.

- 18. Blowing—
- 19. Traveling-mold,
- 20. Manipulating blow-iron,
- 21. Tools.
- 22. Reshaping—
- 23. Neck-forming—
- 24. Tools—
- 25. Divided-mandrel,
- 26. Crimping,
- 27. Spreading or flaring.
- 28. Perforating.
- 29. Molding—
- 30. Curved pipes and tubes,
- 31. Vertical pipes and tubes,
- 32. Wire-glass,
- 33. Rolling—
- 34. Bed and roller,
- 35. Presses—
- 36. Screw-threading,
- 37. Traveling-mold,
- 38. Fluid-operated,
- 39. Casting.
- 40. Mold-coolers.
- 41. Mold supports and carriers.
- 42. Mold-separating devices—
- 43. Drawing core.
- 44. Flattening.
- 45. Annealing—
- 46. Furnaces—
- 47. Conveying.
- 48. Cutting hard glass—
- 49. Heat-applying
- 50. Tools.
- 52. Heating apparatus—
- 53. Tank-furnaces—
- 54. Delivering,
- 55. Separate gathering-pool,
- 56. Reheating-furnaces—
- 57. Work-manipulating,
- 58. Pot-furnaces,
- 59. Melting-pots,
- 60. Floats,
- 61. Gathering and ladling.
- 62. Batch-mixers.
- 63. Molds—
- 64. Uniting parts,
- 65. Bending,
- 66. Cooling or heating,
- 67. Blowing—
- 68. Labeling,
- 69. Vented,
- 70. Pressing—
- 71. Laterally-separable sides,
- 72. Helically-separable,
- 73. Clamping,
- 74. Cores and plungers.
- 75. Snaps and sockets.
- 76. Tools.
- 77. Processes—
- 77.5. Slag.
- 78. Incandescent-lamp making,
- 78.1. Quartz-glass,
- 79. Combined—
- 80. Molding and blowing,
- 81. Uniting parts—
- 82. Glass to glass—
- 82.1. Biocal lenses,
- 83. Blowing,
- 83.1. Drawing,
- 84. Reshaping,
- 85. Molding—
- 86. Wire-glass,
- 87. Sheets and plates,
- 88. Heat-developed coloring,
- 89. Annealing.
- 92. Structure.

50.—FLUID PRESSURE REGULA-

TORS.*

- 1. Combined regulators and cut-
- 2. off—
- 3. Valve-balancing,
- 4. Liquid-transfer,
- 5. Diaphragm—
- 6. Lever,
- 7. Float—
- 8. Lever,
- 9. Piston—
- 10. Lever.
- 11. Multiple regulating devices—
- 12. Auxiliary-valve—
- 13. Venting.

* See Definitions of Revised Classes.

50.—FLUID PRESSURE REGULA-

TORS—Continued.

- Regulators—
- 13. Balanced-pressure,
- 14. Inlet-pressure,
- 15. Outlet-pressure—
- 16. Varying-resistance—
- 17. Automatic weight-varying,
- 18. Clockwork,
- 19. Liquid-transfer,
- 20. Valve-balancing,
- 21. Diaphragm—
- 22. Water-protected,
- 23. Spring,
- 24. Weight,
- 25. Lever—
- 26. Spring,
- 27. Weight,
- 28. Float—
- 29. Spring,
- 30. Weight,
- 31. Lever—
- 32. Spring,
- 33. Weight,
- 34. Piston—
- 35. Spring,
- 36. Weight,
- 37. Lever—
- 38. Spring,
- 39. Weight.

51.—GRINDING AND POLISHING.

- 1. Abrading materials and tools.
- 17. Boots and shoes.
- File cleaning and sharpen-
- ing—
- 18. Sand-blast.
- Glass and stone—
- 3. Curved surfaces,
- 11. Plane surfaces.
- Metal—
- 2. Card-grinding,
- 4. Curved surfaces,
- 6. Cutlery-scourers,
- 7. Edge-tools,
- 8. Mower and reaper knives,
- 9. Needle-eyes,
- 10. Needles, rods, and points,
- 12. Plane surfaces,
- 14. Rumbles,
- 15. Sheet-metal and wire,
- 16. Strops, hones, and rifles.
- Wood—
- 5. Curved surfaces,
- 13. Plane surfaces.

52.—EXPLOSIVES.

- 1. Blasting-powder.
- 2. Fulminates.
- 4. Gunpowder.
- 5. Matches.
- 3. Nitro compounds.
- 6. Pyrotechnic compounds.

53.—DOMESTIC COOKING VESSELS

- Bollers—
- 1. Domestic—
- 2. Steamers.
- 3. Coffee and tea pots.
- 4. Corn-poppers.
- 5. Gridirons.
- 11. Heat-insulated.
- Pans—
- 6. Bake,
- 7. Frying.
- 8. Pots and kettles.
- 9. Teakettles.
- 10. Waffle-irons.

54.—HARNESSES.*

1. Miscellaneous.
71. Breaking and training devices—
72. Leg-spreaders.
77. Ox-yokes.
2. Track.
3. Yokes.
24. Halters—
85. Connectors.
6. Bridles—
7. Bits—
8. Mouthpieces—
9. Double,
10. Blinds—
11. Covering and uncovering,
12. Brow-bands,
13. Crown-loops,
14. Gag-runners,
15. Stranglers.
57. Underchecks.
16. Checkreins—
17. Hook-loops.
61. Check-hooks—
62. Movable-keeper.
70. Checking and unchecking devices.
35. Martingales.
36. Reins.
74. Rein-holds.
63. Terrets.
73. Rein-guards.
34. Hitching-straps.
64. Hitching-strap holders.
18. Combined collar and hames.
19. Collars—
20. Breast,
21. Fasteners.
25. Hames—
26. Fasteners—
29. Top,
27. Lever,
28. Strap.
30. Hame and trace connectors—
31. Adjustable.
32. Hame-tugs—
33. Adjustable.
58. Breast-straps—
59. Shields and connectors.
50. Thill-tugs—
51. Open.
52. Traces—
53. Whiffletree-connectors.
54. Trace-carriers—
55. Hook.
56. Trace-end supporters.
69. Attaching and detaching devices.
37. Saddles—
38. Harness—
39. Cart,
40. Pivoted side plates,
41. Cushions,
42. Seat and tree connectors,
43. Tug-bearers,
44. Riding—
45. Side,
46. Attachments.
47. Stirrups—
49. Safety,
48. Elastic.
23. Girths.
4. Back-bands.
5. Breaching.
22. Cruppers.
65. Pads—
66. Back,
67. Neck,
68. Fasteners.
86. Elastic connections.
87. Loops.
75. Trimmings—
76. Covered,
76. Ornamental.
78. Tail-Holders.
79. Blankets.
80. Bonnets and shields.
81. Fly-nets.
82. Horse-boots.
83. Spurs.
84. Supports.

55.—HARROWS AND DIGGERS.

1. Clod-crushers—
21. Barred and corrugated rollers—
77. Disks,
22. Crush-bars,
23. Crush-bars and harrows,
24. Toothed rollers and wheels—
78. Geared.
2. Forks—
25. Adjustable heads,
26. Combined forks and shovels,
27. Fodder-forks,
28. Potato forks and shovels—
79. Fulcrumed.
3. Harrows—
80. Center-hinged,
29. Changeable-form,
30. Disk—
122. Center-cutter,
81. Pivoted-gang—
82. Center-cutter,
83. Multiple-gang,
124. Pivot-swung,
31. Expandable—
125. V-shaped,
32. Flexible,
84. Multiple,
11. Revolving—
126. Center-hinged,
85. Geared,
13. Rotary,
152. Spiral,
33. Spring-tooth—
127. Weeders,
86. Tooth-bars,
34. Tooth-cleaners,
149. Trailing-tooth,
128. V-shaped,
19. Wheel—
87. Center-hinged,
73. Disk,
88. Floating,
89. Multiple,
90. Pivoted tooth-bar,
91. Riding attachments,
20. Rotary,
74. Spring—
92. Pivoted tooth-bar,
75. Trailing teeth,
93. Winged,
150. Winged.
- Harrow-teeth—
35. Spike—
94. Clamped,
95. Nuted,
96. Wedged,
36. Spring—
97. Sectional,
37. Trailing and draw-out.
5. Hoes—
38. Adjustable,
98. Blades—
99. Integral-shank,
100. Integral-socket,
39. Compound—
40. Adjustable,
101. Handles,
41. Horizontal—
42. Adjustable,
43. Interchangeable,
44. Toothed blades,
45. Weeding.
6. Land-rollers—
46. Furrowers and markers,
47. Pivoted,
48. Weighted cylinders,
49. Weighted frames.
7. Pivoted teeth.
8. Pivoted tooth-bars—
76. Frameless,
102. Lever-actuated—
103. Spike-tooth—
129. Yielding-bar,
104. Spring-tooth,
105. Trailing-tooth,
130. Spring-tooth,
131. Yielding-bar.
- Potato-diggers—
50. Bearing-wheel separators,
106. Beet-lifters,
107. Cutters,
51. Endless-carrier—
132. Platform inferior,
133. Platform superior,
134. Plow pivoted independently,
135. Plow pivoted on carrier front,
136. Plow pivoted on carrier rear,
137. Plow rigid,
138. Rakes,
108. Graspers,
54. Plow and screen—
139. Plow rigid,
53. Plow-clearers—
109. Reels,

55.—HARROWS AND DIGGERS—Con.

- Potato-diggers—Continued.
55. Plow, vibrating screens—
110. Cam—
140. Plow rigid,
111. Crank—
141. Plow rigid,
142. Plow rigid,
112. Sidewise—
143. Plow rigid,
113. Tappet—
144. Plow rigid,
57. Screen-cylinders,
56. Sifting-wheels, side-delivery,
58. Spiral conveyers,
59. Toothed-drum.
- Rakes—
10. Heads,
114. Sweepers,
145. Tooth-cleaners.
146. Rollers and harrows.
12. Shovels—
14. Attachments,
115. Blades,
147. Fire,
151. Handles,
116. Sifting.
- Stalk-choppers—
60. Draw-cut,
63. Reciprocating,
61. Revolving—
118. Horizontal—
62. Breakers,
62. Vertical,
64. Vine-cutters.
- Stalk-pullers—
65. Hand—
148. Tongs,
66. Wheel.
- Stone-gatherers.
- Transplanters—
17. Ballers,
18. Dibbles,
119. Pivoted jaws,
67. Post-hole diggers—
68. Pivoted jaws,
70. Sliding jaws,
69. Wheel-machines—
72. Tree-conveyers,
120. Wheel-planters.
- 121.

56.—HARVESTERS.

1. Bean-harvesters.
- Binders—
35. Compressors,
36. Grain-adjusters,
37. Sheaf-carriers—
120. Automatic-dump,
- Shock-formers—
121. Automatic—
122. Self-binding,
123. Hand.
- Broom-corn harvesters—
134. Tablers.
135. Bunchers and windrowers.
- Cane-harvesters—
128. Stalk-cutters—
133. Strippers,
132. Toppers.
2. Clover-harvesters.
3. Combined rakes and tedders.
- Corn-harvesters—
130. Cutting apparatus,
119. Self-binders,
103. Stalk-cutters—
- Droppers—
104. Crane,
105. Direct-tilting,
106. Ejector,
107. Endless-apron,
108. Horizontally moving and tilting,
109. Sliding-bottom,
110. Strippers,
- Strippers—
111. Comb,
112. Knife,
113. Roller,
131. Toppers.
5. Corn-shockers.
6. Cotton-harvesters—
117. Pneumatic,
118. Rotating picker-stems.
- Cutting apparatus—
42. Endless,
129. Grain-lifters,
43. Guard-fingers and finger-bars,
44. Reciprocating,
45. Rotary,
46. Vibrating.

* See Definitions of Revised Classes.

59.—CHAIN, STAPLE, AND HORSE-SHOE MAKING—Continued.

- Chain-making—Continued.
31. Welding—
 32. Rotary-feed,
 33. Dies,
 34. Holding devices,
 35. Blanks and processes.
 36. Horseshoe-making—
 37. Combined machines—
 38. Cutting, bending, shaping, punohing, and creasing—
 39. Calk and clip bending and forming,
 40. Reciprocating jaw or die-block—
 41. Reciprocating punch and creaser,
 42. Rotary die-block—
 43. Rotary punch and creaser,
 44. Bending, shaping, punohing, and creasing—
 45. Reciprocating jaw or die-block—
 46. Reciprocating punch and creaser,
 47. Rotary die-block—
 48. Rotary punch and creaser,
 49. Cutting, bending, shaping—
 50. Reciprocating die-block,
 51. Rotary die-block,
 52. Bending and shaping—
 53. Reciprocating die-block,
 54. Rotary die-block,
 55. Shaping, punohing, and creasing,
 56. Bending,
 57. Punohing and creasing,
 58. Swaging and shaping,
 59. Trimming and bur-removing,
 60. Dies and tools,
 61. Processes,
 62. Blanks and bars—
 63. Rolling—
 64. Processes,
 65. Calk and olip bending, forming, sharpening, welding,
 66. Calk-making—
 67. Blanks and bars,
 68. Processes,
 69. Calks.
 70. Ox-shoe making.
 71. Staple-making—
 72. Sheet-metal,
 73. Cutting, bending, barbing,
 74. Cutting, bending, point-forming,
 75. Cutting and bending—
 76. Rotary-former,
 77. Blanks and processes.
 78. Chains—
 79. Elastic,
 80. Ornamental—
 81. Multistrand roller,
 82. Links,
 83. Wire,
 84. Links—
 85. Detachable—
 86. Shackles,
 87. Double-lap—
 88. Pivoted,
 89. Pivoted-closure,
 90. One-piece—
 91. Sheet-metal,
 92. Wrapped and twisted,
 93. Attachments—
 94. Hooks and grabs,
 95. Swivels.
 96. Key-holders—
 97. Flexible,
 98. One-piece,
 99. Rotary and sliding closures.

60.—MISCELLANEOUS HEAT-ENGINE PLANTS.*

1. Miscellaneous.
3. Boat and torpedo.
4. Rotary-engine.
2. Atmospheric and solar.
6. Volatile-liquid—
7. Liquid-burner.
- Steam—
8. Combustion-products injected,
9. Air-injected—
10. Auxiliary.

60.—MISCELLANEOUS HEAT-ENGINE PLANTS—Continued.

- Hot-air—
11. Liquid-heated—
 12. Spray,
 13. Continual air-supply—
 14. Combustion - products injected—
 15. Explosion,
 16. Water-injected,
 17. Constant-mass—
 18. Vapor.
 - Vacuum—
 19. Air—
 20. Vapor,
 21. Ejector,
 22. Explosion.
 23. Separate-fluid—
 24. Waste heat.
 25. Liquefied-gas.
 - Gravity.
 27. Buoyancy.
 28. Pressure-generators—
 - Steam—
 29. Air-injected,
 - Combustion - products injected—
 30. Explosion,
 31. Liquid and gaseous fuel,
 32. Solid-fuel,
 33. Flasher type,
 35. Air—
 36. Combustion - products injected—
 37. Explosion,
 38. Moisture-injected,
 39. Electric-heater.
 40. Fluid compounds.

61.—HYDRAULIC ENGINEERING.

1. Aqueducts.
19. Breakwaters.
2. Cable-laying.
3. Caissons—
20. Ship.
4. Canals—
28. Gate-valves,
21. Lock-gates—
27. Bear-trap.
5. Chutes—
34. Water-power.
23. Cribbing.
- Dams—
22. Coffor,
25. Sectional.
24. Dams and levees—
35. Cores,
36. Mattresses.
7. Diving-armor.
8. Docks—
48. Lifting.
9. Drains.
26. Forming and preserving channels.
- Harbors—
54. Fortifications and defenses—
55. Turrets.
29. Jetties, sectional.
11. Marine ways.
13. Pile-drivers—
37. Jigs,
38. Monkey,
39. Piston,
41. Sinking,
40. Swinging-bammer.
30. Protecting shores.
57. Tide and wave accumulators.
16. Tunnels—
44. Excavators,
45. Shields.
- Water-gates—
46. Sliding,
47. Swinging.
31. Wharves—
56. Gates.

62.—REFRIGERATION.*

1. Miscellaneous.
2. Automatic-control—
3. Compressor-condenser-expander circuit—
4. Motor-control,
5. Still-circuit,
6. Chamber-cooler,
7. Fluid-cooler,
8. Expander.
- Body-coolers—
9. Ice-receptacle.
10. Butter-dishes.
11. Tables.
12. Rinks.
13. Wagons, ice.
14. Ships, ice.
- Cars, ice—
16. Top and end ice-box,
17. Top ice-box—
18. Central ice-box,
19. End ice-box—
20. Drip-cooled,
21. Cooled air-tubes,
22. Bottom ice-box,
23. Ice-casing,
- Ice-box—
24. Air-pump circuit.
- Cars—
25. Liquefied-gas.
26. Buildings, ice—
27. Top ice-box—
28. Drip-cooled,
29. Central ice-box,
- Ice-box—
30. Air-pump circuit.
31. Refrigerators, ice—
32. Barrel—
33. Liquid-cooler,
34. Bottle—
35. Gravity-feed,
36. Sideboard,
37. Display,
38. Liquid-cooler—
39. Filter—
40. Drip-tank,
41. Pressure,
42. Flat-plate,
43. Coil—
44. Bottle type,
45. Top ice-box—
46. Top ice-box—
47. Valved—
48. Door-operated,
49. Rotary,
50. Superposed,
51. End—
52. Drip-tank,
53. Drip-cooled—
54. Drip-tube,
55. Drip-tank—
56. Filter,
57. Drip-casing,
58. Central ice-box—
59. Rotary,
60. Drip-tank,
61. End ice-box—
62. Drip-cooled,
63. Bottom ice-box,
64. Valved—
65. Door-operated,
66. Drawer-operated,
67. Ice-cooled air-pipe,
68. Ice-casing,
69. Ice-tank,
70. Drip-cooled,
71. Elevator,
72. Air-pump circuit,
73. Evaporative,
74. Scale,
75. Receptacle—
76. Bottle—
77. Rotary,
78. Corpse,
79. Liquid-cooler,
80. Top ice-box—
81. Superposed,
82. Drip-cooled,
83. Central ice-box—
84. Drip-cooled,
85. End ice-box,
86. Bottom ice-box,
87. Ice-casing,
88. Covers.
- Refrigerators—
89. Evaporative—
90. Receptacle,
91. Liquefied-gas—
92. Absorber,
93. Chemical,
94. Cbchemical,
95. Indirectly-cooled,
96. Air-cooled—
97. Expansion in chamber—
98. Expansion-motor,

* See Definitions of Revised Classes.

62.—REFRIGERATION—Continued.

- Refrigerators—Continued.**
99. Surface-cooler—
 100. Corpse,
 101. Liquid-circuit,
 102. Air-pump circuit,
 103. Condenser,
 104. Liquid-contact cooler.
 105. **Ice-making apparatus—**
 106. Freezers—
 107. Spray,
 108. Tank,
 109. Atmospheric—
 110. Tank,
 111. Separator—
 112. Heated-cutter,
 113. Can-heater.
 114. **Congelation apparatus.**
 115. **Compressor-condenser-expander circuit—**
 116. Refrigerator type—
 117. Car.
 118. **Still-condenser-expander circuit—**
 119. Absorber.
 120. **Absorbing-still condensing-expander.**
 121. **Gas-solidifiers.**
 122. **Gas liquefiers and separators—**
 123. Expansion-motor.
 124. **Liquid-separators.**
 125. **Liquefaction and expansion—**
 126. Expanders—
 127. Expansion-valves.
 128. **Air and liquid coolers.**
 129. **Air-coolers—**
 130. Ice—
 132. Contact—
 133. Air-pump,
 131. Air-pump,
 134. Indirect,
 135. Air-pump—
 136. Expansion-motor—
 137. Condenser,
 138. Water-contact,
 139. Evaporative,
 140. Condensers.
 141. **Liquid-coolers—**
 142. Ice—
 143. Bottle type,
 144. Barrel,
 145. Filter,
 146. Contact,
 147. Tube,
 148. Flat-plate,
 149. Agitator,
 150. Expansion-motor,
 151. Film-plate,
 152. Vacuum—
 153. Hygroscopic,
 154. Evaporative—
 155. Pressure,
 156. Air-pump,
 157. Tank—
 158. Gas-expansion,
 159. Air-injected,
 160. Cooling-liquid circuit—
 161. Agitator,
 162. Spur-tube,
 163. Vertical-plate—
 164. Thawer,
 165. Bottom-plate,
 166. Agitator,
 167. Thawer.
 168. **Evaporative coolers—**
 169. Vacuum.
 170. **Processes—**
 171. Cooling-chambers,
 172. Ice-making,
 173. Congelation—
 174. Ice-cream,
 175. Liquefaction of gases,
 176. Cooling air,
 177. Cooling liquids,
 178. Cooling by vaporization.

63.—JEWELRY.*

1. **Combination articles.**
2. **Miscellaneous.**
3. **Bracelets—**
4. Chain,
5. Expandable—
6. Two-part,
7. Single-hinge—
8. Spring,
9. Multiple-hinge,
10. Swiveled,
11. Resilient.

63.—JEWELRY—Continued.

12. **Ear-rings—**
13. Pendant-jewel,
14. Non-piercing.
15. **Finger-rings—**
16. Adjustable and divided,
17. Guards.
18. **Locketts—**
19. Hinged covers.
20. **Ornamental pins.**
21. **Watch and chain attachments—**
22. Bars,
23. Charms,
24. Safety watch-guards—
25. Automatically-operated.
26. **Gem-settings—**
27. Crown,
28. Multiple,
29. Detachable—
30. Exhibiting,
31. Movable.
32. **Gems.**

64.—JOURNAL-BOXES, PULLEYS, AND SHAFTING.

27. **Axles, lubricating.**
4. **Belt-shifters—**
51. Lifters.
5. **Belt-tighteners.**
7. **Compensating journals.**
41. **Gudgeons.**
21. **Idle-pulley supports.**
10. **Journal-boxes—**
52. Bodily-movable,
20. Brasses,
19. Compositions,
53. Eccentric-adjustment,
47. Fluid-support,
22. Guards,
23. Lids,
24. Lubricating—
31. Band-applying,
32. Centrifugal,
28. Coolers,
46. Materials for feeding oils,
33. Roller-applying—
34. Elastically-supported,
56. Vertical-spindle,
35. Yieldably-supported pads,
54. Rocking-adjustment,
48. Vertical-spindle, automatic-centering.
55. Wear-compensating.
17. **Pulleys—**
43. Air-escape rims,
8. Expandable,
40. Grip,
26. Lubricating,
45. Non-metallic rim-coverings,
18. Split.
36. **Roller-bearings—**
57. Ball—
58. Antifrictionally-spaced,
59. Retained,
37. Spaced,
38. Ball-and-cylinder,
39. Cylinder—
61. Circular-series—
62. Antifrictionally-spaced,
60. Spaced,
60. Toothed.
12. **Shaft-casings.**
13. **Shaft-couplings.**
14. **Shaft-hangers.**
29. **Shafting—**
30. Flexible.
72. **Spindle-bearings—**
73. Bolster,
78. Combined—
77. Adjustable,
75. Laterally-resilient,
74. Post,
76. Rocking,
80. Roller,
79. Step.
25. **Thrust-bearings—**
49. Ball,
50. Cylinder.
63. **Truck-bearings—**
64. Ball,
65. Rocker.
66. **Wheel-mounts—**
68. Movable—
71. Laterally-movable wheel,
70. Pivoted,
69. Universal,
67. Quick wheel-release.

65.—KITCHEN AND TABLE ARTICLES.

3. **Cake-turners.**
5. **Casters—**
55. Rotary.
10. **Compound tools—**
56. Gripping.
45. **Condiment-holders—**
57. Pulverizing.
12. **Culinary.**
13. **Cups—**
58. Collapsible.
16. **Dish-covers.**
61. **Dish-stands.**
15. **Dishes and plates—**
59. Covered,
60. Pivoted covers.
20. **Dust-pans—**
62. Brush attachments,
63. Footpieces.
22. **Egg-cups.**
25. **Fruit-lifters.**
26. **Jar-lifters.**
28. **Ladies.**
29. **Napkin-holders.**
31. **Pitchers—**
67. Compartment,
66. Spaced-wall,
64. Tilting-frame.
32. **Plate-lifters.**
65. **Racks and rests.**
36. **Scoops.**
46. **Stopper-extractors—**
47. Hook,
48. Screw—
49. Lever-operated,
50. Rotary,
51. Screw-and-lever.
52. **Table-tongs.**
53. **Trays—**
54. Attaching devices.

66.—KNITTING AND NETTING.

19. **Circular machines—**
20. Dial,
21. Independent needles—
22. Dial—
23. Fashioning,
24. Fashioning,
25. Loooper pin and hook.
17. **Crocheting.**
3. **Darning.**
4. **Fabrics.**
12. **Feeding.**
26. **Loopers, sinkers, and web-holders.**
5. **Needles.**
6. **Netting.**
27. **Rotary burs and sinkers.**
7. **Stopping.**
28. **Straight machines—**
29. Cams and stops,
30. Fashioning,
31. Loooper pin and hook.
9. **Take-ups and tensions.**
10. **Tatting.**
32. **Transferring devices.**
33. **Traverse warp-machines.**
34. **Warp and weft machines.**

67.—ILLUMINATING-BURNERS.*

1. **Miscellaneous.**
2. **Combined gas and vapor.**
3. **Igniting devices—**
4. Cigar—
- 4.1. Pyrophoric,
5. Hydrogen-platinum,
6. Implements—
- 6.1. Pyrophoric,
7. Pocket—
- 7.1. Pyrophoric.
9. **Lamp—**
10. Fulminating,
- 10.1. Pyrophoric,
11. Aperture,
12. Match-scratchers,
13. Separable,
14. Gaseous—
15. Conducting-tube,
16. Pilot—
- Pressure-operated—
17. Multiple-fluid,
18. Single-fluid,
19. Catalytic,
20. Fulminating,
- 20.1. Pyrophoric.

* See Definitions of Revised Classes.

67.—ILLUMINATING-BURNERS—

Continued.

21. Solid-fuel—
22. Candles,
23. Candlesticks—
24. Extinguishers,
25. Candelabra,
26. Miners',
27. Maintained flame-level,
28. Flash-lights—
29. Shutter release and light,
30. Hoods,
31. Electric-ignition,
32. Flame-ignition,
33. Fulminant-ignition,
34. Magnesium-strip type.
35. Liquid-fuel—
36. Burners—
37. Vapor—
38. Blue-flame wick type,
39. Multiple-fluid,
40. Retort—
41. Starters,
42. Heating-jet—
43. Air-mixing,
44. Heat-conducting—
45. Air-mixing,
46. Air-mixing—
47. Internal,
48. Overlying,
49. Side,
50. Inverted,
51. Floating,
52. Forced-draft,
53. Wick type—
54. Multiple,
55. Chimneyless,
56. Argand—
57. Lateral air-inlet,
58. Central-draft—
59. Drawbar,
60. Rack-bar,
61. Screw-rod,
62. Swiss screw,
63. Air-distributors,
64. Returned-wick,
65. Wick-raisers,
66. Wick-stops,
67. Wick-inserters,
68. Wick-trimmers,
69. Wicks—
70. Multiple-piece,
71. Glass-cone,
72. Air-distributors,
73. Extinguishers—
74. Fuel-exhaustion,
75. Pneumatic,
76. Liquid,
77. Mechanical—
78. Cap,
79. Double-wing,
80. Sliding-sleeve,
81. Fonts—
82. Independent,
83. Collars,
84. Drip-catchers,
85. Filling devices,
86. Vents.
87. Gaseous-fuel burners—
88. Incandescent—
100. Mantle-making,
89. Calcium-light type,
90. Pressure—
91. Self-intensifying,
92. Resilient-support,
93. Combined upright and inverted,
94. Inverted,
95. Inclined,
96. Upright—
97. Preheater,
98. Mantles,
99. Mantle compositions,
101. Mantle-support—
102. Inclosed,
103. Inverted,
104. Resilient,
105. Acetylene,
106. Annular,
107. Multiple-fluid,
108. Regenerative—
109. Gas,
110. Intermittent—
111. Self-operated,
112. Tips,
113. Automatic cut-offs—
114. Draft,
115. Pressure,
116. Thermostatic—
117. Self-setting,
118. Regulating—
119. Automatic,
120. Fixed,
121. Manual.

68.—LAUNDRY.

1. Bosom-boards.
2. Clamps.
34. Clothes-driers.
12. Clothes-line fasteners.
14. Clothes-line reels.
3. Clothes-lines.
5. Clothes-pounder.
6. Clothes sticks and tongs.
7. Fluting-irons.
8. Hand-rubbers.
9. Ironing-machines.
10. Ironing-tables.
11. Laundries.
13. Mangles.
27. Sad-iron holders.
26. Sad-irons.
28. Starching-machines.
35. Wash-benches.
29. Wash-boards.
30. Wash-boilers.
- Washing-machines—
15. Agitator,
16. Boiler,
17. Combined washing and wringing,
18. Cylinder,
37. Miscellaneous,
19. Pounder,
20. Reciprocating-rubber,
21. Rocking and swinging,
22. Roller,
23. Roller-and-bed,
24. Rotary-rubber.
31. Wash-tubs.
33. Wringer-rolls.
32. Wringers.

69.—LEATHER MANUFACTURES.*

1. Machines—
- 1.5. Belt-stretching,
3. Horse-collar shaping,
4. Horse-collar stuffing,
17. Strap-finishing,
18. Tack-leathering,
2. Cutting and impressing,
5. Folding and rolling,
6. Rounding,
7. Seam-pressing,
8. Forming and pressing,
9. Skiving and splitting—
- 9.5. Rotary tubular knife,
10. Belt-knife,
16. Rotary disk knife,
15. Reciprocating-knife,
11. Fixed-knife—
12. Reciprocating-feed,
13. Roller-feed—
14. Trimming attachments.
- Work-holders.
- Tools.
21. Articles and processes.

70.—LOCKS AND LATCHES.

116. Bag-fasteners.
3. Box-fasteners—
80. Seal,
81. Sliding-bolt,
82. Spring-catch.
120. Emergency-exit-door fasteners.
83. Hasp-fasteners.
7. Key-fasteners—
65. Portable.
8. Keyhole-guards—
61. Sliding and pivoted.
9. Keys.
11. Knob attachments—
84. Key-fasteners,
85. Screw-spindle,
86. Set-screw and pin fastener,
87. Spring-fastener,
88. Wedge-fastener.
12. Knob-roses.
41. Knob-spindle fasteners.
10. Knobs.
118. Latch-releasers, foot-operated.
- Latches—
64. Automatic-detent,
119. Double-acting,
28. Gate,
51. Gravity,
44. Lifting—
45. Hooked-end,

70.—LOCKS AND LATCHES—Contd.

- Latches—Continued.
43. Pivoted-end,
21. Reversible,
42. Sliding,
49. Swinging.
15. Lock-strikes—
52. Electric.
16. Lock-trimmings.
14. Locks—
2. Bag,
90. Bicycle,
4. Car-seat,
46. Cylinder—
92. Multiple-key,
91. Cylinder knob,
50. Electric—
63. Combination,
62. Time,
5. Hasp,
122. Incasing—
123. Valve,
6. Indicator,
74. Multiple-bolt,
69. Multiple key—
70. Adjustable tumbler,
71. Master-key,
72. Primary and secondary,
20. Piano,
47. Pin—
93. Multiple-key,
75. Pivoted-tumbler,
23. Seal—
95. Seals,
31. Sliding-door,
76. Sliding-tumbler,
79. Systems of locks,
25. Till,
26. Time,
73. Trap,
27. Trunk—
115. Swinging-hasp,
77. Tumbler and dog,
124. Valve—
125. With padlock,
78. Without tumblers.
29. Locks and latches combined.
17. Padlocks—
104. Divided-shackle,
- Indicator—
110. Pivoted-shackle,
111. Permutation—
19. Pivoted-shackle,
112. Sliding-shackle,
113. Sliding-shackle,
96. Pin,
105. Pivoted-shackle—
106. Sliding-bolt,
107. Rotating-shackle,
97. Seal,
108. Sliding-shackle,
18. Permutation—
56. Dials,
55. Hasp,
66. Keyhole-guards,
58. Knob-pins,
57. Operating-handle,
54. Push-pin,
53. Rotating tumblers,
60. Sliding tumblers,
59. Spindles,
67. Till-locks.
94. Seal-bolts.
117. Seal-buckles.
98. Seals—
99. Automatic-catch,
100. Box and bag,
101. Box-strap.
24. Shackles.
102. Sliding-door fasteners.
121. Tightening-fasteners.
103. Trunk-fasteners.

71.—FERTILIZERS.

1. Apparatus.
10. Bacterial.
9. Compositions.
6. Organic.
7. Phosphates.
8. Sewage and night-soil.

* See Definitions of Revised Classes.

72.—MASONRY AND CONCRETE**STRUCTURES.***

- 0.5. Miscellaneous.
1. Buildings—
6. Elevators and bins,
7. Vaults.
8. Bridges.
9. Cisterns.
10. Cellars—
11. Caves.
12. Wells.
13. Tanks—
14. Lined.
51. Conduits—
52. Culverts,
53. Pipes—
54. Lined and covered.
82. Poles and posts—
83. With bases—
84. Detachable,
85. Reinforced.
90. Smoke-flues—
91. Block,
92. Sectional,
93. Stacks,
94. Lined,
95. Bases.
96. Stairs.
15. Building elements and sup-
ports, integral.
- 15.5. Checker-bricks.
16. Walls—
17. Faced—
18. Tile—
19. Wall-anchored—
20. Metal-reinforced,
21. Bonded,
22. Flexible-backed,
23. Rigid-backed,
24. Framed,
25. Interlocking,
26. Faced elements,
27. Monolithic—
28. Metal-reinforced,
- Block and plastic—
- Plastic-filled—
30. Metal-reinforced,
- Plastic-covered—
32. Metal-reinforced,
- Wood and plastic,
- Block—
- Faced—
35. Attached,
36. Integral,
37. Solid—
38. Interlocked,
39. Angular,
40. Metal-reinforced,
41. Hollow—
42. Metal-reinforced,
43. Parallel-spaced—
44. Metal-reinforced,
45. Fiber,
- Monolithic—
46. Partition,
47. Hollow—
48. Metal-reinforced,
49. Solid—
50. Metal-reinforced,
55. Arches—
56. Bridge—
57. Metal-lined,
58. Fire-place,
59. Girders—
60. Plastic-filled,
61. Metal-reinforced,
63. Floor—
61. Bridge,
65. Tile and concrete—
66. Metal-reinforced,
67. Tile—
68. Metal-reinforced,
69. Concrete—
70. Externally metal-rein-
forced,
- Internally metal-reinforced.
71. Doors.
97. Sills and jambs.
98. Windows.
99. Manholes and covers.
100. Coping—
86. Borders,
87. Chimney-caps,
88. Vault.
89. Columns—
72. Tile-covered,
73. Plastic-covered,
74. Plastic-filled,
75. Metal-reinforced.
76. Sheet-piling.
- 76.5. Foundations—
77. Machine,
78. Shoring,
79. Piers,
80. Concrete piles.
- 81.

71.—MASONRY AND CONCRETE**STRUCTURES—Continued.**

101. Bonding and tying—
102. Bonding,
103. Ties,
104. Clamps,
105. Fixing-blocks,
106. Joints—
107. Block,
108. Anchors and sockets.
109. Reinforcing elements—
115. Studding,
116. Lathing—
121. Corner-heads,
119. Wire—
120. Furring and fastening,
117. Expanded-metal,
118. Furring and fastening,
110. Compound,
111. Bars—
112. Attached shear members,
113. Integral shear members,
114. Joints,
122. Spacers.
123. Plastering—
124. Plaster-boards,
125. Ornaments.
- Waterproofing—
126. Cellars,
127. Walls.
128. Implements—
129. Bricklaying-machines,
130. Plastering-machines,
131. Running-molds,
134. Hods,
135. Hawks,
136. Trowels and floats,
137. Scrapers,
138. Pointers.

73.—MEASURING INSTRUMENTS.

2. Anemometers.
3. Balances—
101. Electrical attachments,
99. Equal arms,
102. Pick-up weights,
100. Recording.
4. Barometers.
5. Bathometers.
184. Calorimeters.
11. Coin-testers.
- Dry measurers—
131. Bulk-controlled,
137. Weight-controlled.
15. Dynamometers.
- Gages—
54. Water—
82. Float.
20. Grain-tallies.
22. Hydrometers.
24. Hygrosopes.
- Instruments—
151. Miscellaneous,
152. Pivots and bearings.
62. Measuring vessels—
165. Capacity adjustable,
166. Depth-indicating.
167. Meters—
1. Air and gas,
12. Diaphragm,
98. Disk,
28. Oscillating,
30. Piston,
68. Proportional,
37. Rotary,
45. Spirit.
- Pressure-gages—
109. Bourdon,
110. Diaphragm,
111. Piston.
- Scales—
39. Beams,
8. Cart,
23. Hydrostatic,
41. Pans,
29. Pendulum,
121. Platform,
104. Price,
38. Sack,
46. Spring.
122. Ships' logs.
42. Specific-gravity apparatus.
44. Sphygmoscopes.
112. Spirometers.
103. Steelyards.
50. Testing illumination fluids.
51. Testing-machines.

73.—MEASURING INSTRUMENTS—**Continued.**

52. Thermometers—
 118. Metallic,
 119. Oven,
 32. Pyrometers.
 21. Tollers.
 120. Ullage-rods.
 55. Weather-vanes.
 - Weighers—
 - Alternating-feed—
 168. Divided-bucket,
 169. Separate buckets,
 170. Compound.
 171. Discharge-poised—
 172. Power,
 - Drip-poised—
 173. Force-feed,
 174. Multiple valves,
 175. Single-valve,
 176. Electrically-controlled,
 177. Miscellaneous,
 178. Oscillating-bucket,
 179. Positively-actuated,
 180. Regulating and charge han-
dling,
 181. Removable-receptacle,
 182. Rotary-bucket,
 183. Successive-operation.
 56. Weights.
- 74.—MACHINE ELEMENTS.**
62. Belts—
 63. Laminated,
 64. Link,
 65. Metal-reinforced,
 66. Round,
 67. Woven-wire.
 1. Cams and eccentrics.
 5. Cranks and levers—
 88. Controller-checks,
 38. Cranks and wrist-pins,
 81. Foot-levers,
 39. Hand-levers—
 82. Handle-bar supported,
 33. Handles,
 83. Interlocking.
 6. Fly-wheels.
 56. Gear-casings.
 7. Gearing—
 50. Alternating rotary,
 21. Belt—
 51. Guides,
 26. Frictional,
 57. Interchangeably-locked—
 58. Slidable gears,
 59. Slidable keys,
 34. Planetary—
 35. Eccentric,
 36. Screw,
 40. Screw-and-nut,
 28. Sectional,
 95. Speed-controlled—
 97. Ratio-changing,
 96. Reversing,
 31. Sprocket—
 61. Expandible,
 32. Sprocket-chains—
 49. Connectors,
 42. Endless-belt,
 43. Solid-link,
 44. Solid-link and coupler,
 41. Teeth and bodies,
 29. Yieldable.
 8. Gibs and keys.
 84. Guides—
 85. Cylindrical,
 86. Lubricated,
 87. Roller.
 78. Gyroscopes.
 53. Intermittent-grip devices—
 54. Ratchet,
 55. Strap and dog or ball.
 13. Machine-brakes—
 45. Centrifugal speed-regulators,
 69. Dash-pots,
 70. Electrically-operated,
 46. Stop mechanisms,
 37. Strap.
 11. Mechanical movements—
 89. Speed-controlled—
 91. Hit-and-miss,
 92. Intermittent-grip,
 90. Trip,
 79. Steering-gear type—
 80. Adjustable-shaft.
 20. Overcoming dead-centers.
 16. Pawls and ratchets—
 60. Noiseless.

* See Definitions of Revised Classes.

74.—MACHINE ELEMENTS—Continued.

17. Pitmen—
71. Counterbalanced,
47. Longitudinally-adjustable rod,
48. Longitudinally-yieldable.
27. Racks and pinions.
98. Reciprocating carriage-motions.
52. Set-screw guards.
93. Trips—
94. Speed-controlled.
19. Universal joints.

75.—METALLURGY.

1. Alloys.
187. Fluxes.
30. Fume-arresters.
14. Iron and steel direct—
73. Bricks,
74. Flux,
75. Gases,
76. Slag,
77. Sponge.
15. Lead.
197. Miscellaneous.
19. Pigment.
22. Quicksilver.
17. Reducing and separating—
58. Aluminum,
62. Copper,
59. Desilverizing lead,
60. Desulfurizing ores,
61. Disintegrating ores,
63. Flux,
64. Gold and silver,
85. Mangaoese,
66. Nickel and cobalt,
65. Ore bricks,
183. Sodium.
18. Solution and precipitation—
67. Chlorination,
185. Cyanids,
69. Ferric salts,
70. Parting bullion.
28. Spelter—
153. Processes.
27. Treating molten iron—
44. Air, steam, or gases,
45. Alloys,
46. Basic,
87. Basic linings,
47. Granulating,
48. Oxids,
49. Physis,
50. Scrap,
51. Vacuum.
55. Utilizing tin-scrap—
56. Wet processes.

76.—METAL TOOLS AND IMPLEMENTS—MAKING.*

1. Miscellaneous.
12. File-cutting—
13. Rasp-punching,
14. Swaging,
15. Trip-operated cutter—
16. Blow-controlled,
17. Idle cutter, hammer-operated—
18. Blow-controlled,
19. Pressers,
20. Beds and clamps,
21. Cutter-heads,
22. Feeding—
23. Screw-operated,
24. Processes.
25. Saw-making—
- Stretching—
26. Hammer,
27. Roller,
28. Tooth-forming—
- Chisel-cutting,
29. Die-cutting,
- Sharpening and gumming—
- Die-cutting,
31. Reciprocating-tool—
32. Gun-saws,
33. Traveling tool-carriage,
34. Clamp-feed,
35. Tooth-engaging feed,
36. File-holders and guides,

76.—METAL TOOLS AND IMPLEMENTS—MAKING—Continued.

- Saw-making—Continued.
- Sharpening and gumming—Con.
- Rotating-tool—
37. Spiral,
38. Switch-cam feed,
40. Pivoted-gate,
41. Sliding-gate,
42. Pivoted saw-carriage,
43. Sliding saw-carriage,
44. Milling,
45. Disks and cutters,
46. Dressing, jointing, and gaging,
47. Dressing and jointing—
48. Circular-saw,
49. Compressing,
50. Rotary-tool,
51. Swaging—
- Pivoted-swage—
52. Lever-operated,
- Sliding-swage—
53. Lever-operated,
54. Cam-swage,
55. Idle-swage,
56. Tools,
57. Anvils,
- Setting—
58. Rotary-set,
59. Screw-operated set,
60. Pivoted-set—
61. Multiple,
62. Trip,
63. Lever-operated—
64. Pliers,
65. Idle,
- Sliding-set—
66. Multiple,
67. Trip,
68. Lever-operated—
69. Pliers,
70. Idle,
71. Spring-set,
72. Swage-set,
72. Anvil-set,
74. Guides,
75. Feeding—
76. Clamp-feed,
77. Tooth-engaging feed,
78. Clamps—
79. Center-supports,
80. Tooth-inserters.
- Machines—
2. Auger—
3. Clearing and lip-cutting,
4. Die-forming,
- 4.4. Type or matrix forming—
- 4.5. Type-bar
5. Drill forming and sharpening,
6. Eye-headed tool—
7. Ax—
8. Adjustable header,
9. Socket, strap, and tang tool,
10. Wrench,
11. Blank-splitting.
82. Cutting sharpeners—
83. Skate,
84. Butchers' steels,
85. Rotary,
- Multiple-cutter—
86. Converging—
87. Disks,
88. Cutter and guide—
89. Disk.
- Dies—
90. Augers,
91. Axes, hammers, and hatchets,
92. Cutlery—
93. Forks and spoons,
94. Drills,
95. Hoes, mattocks, and picks,
96. Pitchforks and rakes,
97. Pliers and tongs,
98. Shovels,
99. Wrenches.
100. Blanks and processes—
101. Augers,
102. Axes, hammers, and hatchets,
103. Cutlery—
104. Forks and spoons,
105. Hollow handles,
106. Dies,
107. Types or matrices—
- 107.4. Making ready,
- 107.5. Type-bars,
108. Drills,
109. Hoes, mattocks, and picks,
110. Keys,
111. Pitchforks and rakes,
112. Saws,
113. Shovels,
114. Wrenches.

77.—BORING AND DRILLING.*

37. Tapping mains—
38. Closed tool-chamber—
39. Multiple tool-holder,
40. Valved—
41. Permanent—
42. Annular cutter.
- Boring-machines—
1. Miscellaneous,
2. Portable,
3. Horizontal,
4. Vertical.
- Drilling-machines—
5. Miscellaneous,
6. Independent-motor,
7. Portable—
8. Rail-drills—
9. Quick-setting,
10. Ratchet,
11. Clamp-frames,
12. Clamped, drilling, and tapping,
13. Clamped—
14. Chain,
15. Flexible-shaft,
16. Bow,
17. Cord-and-spring drive,
18. Center drills,
19. Bench,
20. Post,
- Multiple-spindle—
21. Axially-opposite,
22. Parallel-axes—
23. Circular-gang,
24. Independent-adjustment,
25. Turret,
26. Radial axes,
27. Radial—
28. Vertically-adjustable arm,
31. Angular-spindle-adjustment,
29. Friction-drive,
30. Treadle-feed,
32. Feed mechanisms—
33. Automatic-stop,
34. Frictional,
35. Back gears,
36. Counterweights.
- Ratchet-drills, combination.
- Ratchet-drills—
44. Self-feeding,
45. Double-acting—
46. Axially-swinging lever,
47. Transversely-swinging lever
48. Reversible,
49. Axially-yielding clutch,
50. Band-grip,
51. Sliding-pawl,
52. Wedging-pawl—
53. Roller-grip,
54. Feed-screws.
- Appliances—
55. Boring-bars—
57. Feed devices,
58. Boring-heads,
59. Drill-braces,
60. Drill-holders,
61. Non-circular cut,
62. Jigs,
63. Work-supports—
64. Indexing.
65. Drills, combined—
66. Drills and countersinks.
- Drills—
68. Oil-conduit,
69. Annular,
70. Twist,
71. Tangs.
- Reamers—
72. Pipe-bur,
73. Countersinks,
- 73.5. Adjustable—
75. Wedge—
- 75.5. Central-cone.
- 76.

78.—METAL FORGING AND WELDING.*

1. Forging—
45. Toothed articles,
55. Tire-upsetting—
56. Circumferential,
57. Pivoted-clamp—
58. Single-lever,
59. Sliding-clamp,
46. Riveting—
47. Calking,
48. Machines—
49. Special,
50. Work-supported,
51. Pipe,
52. Plate-clamping,
53. Rotating-tool,

* See Definitions of Revised Classes.

- 78.—METAL FORGING AND WELD-
ING—Continued.**
Forging—Continued.
 Riveting—Continued.
 53.5. Rivet-holders,
 54. Riveted joints,
 9. Billet-piercing—
 10. Fixed-mandrel,
 11. Rotary mandrel or billet,
 12. Processes,
 13. Power hammers and presses—
 14. Pipe-swaging,
 16. Spoke-securing,
 15. Shrinking,
 17. Upsetting,
 18. Die-inclosed work,
 19. Traveling,
 20. Hammer-anvil—
 21. Cam-operated—
 22. Adjustable dies,
 23. Helved,
 24. Multiple-hammer,
 25. Drop—
 26. Cam-lift—
 27. Sliding-head,
 28. Crank-lift,
 29. Friction-lift,
 30. Winding-lift,
 31. Helved—
 32. Crank-operated,
 33. Olivers,
 34. Revolving-hammer,
 35. Screw-operated,
 42. Fluid-operated,
 36. Sliding-head—
 37. Adjustable guides,
 38. Cam-operated,
 39. Crank-operated—
 40. Cushioned,
 41. Toggle-operated,
 43. Cushioned elements,
 44. Anvils,
 44.5. Tool-retainers,
 3. Anvil-vises—
 4. Foot,
 5. Anvils—
 6. Special-work,
 7. Attachments—
 8. Vises,
 Dies—
 64. Carriage-irons—
 65. Axles and axle-boxes,
 66. Clips and shackles,
 67. Fifth-wheels,
 68. King-bolts,
 68.5. Plow and cultivator irons,
 70. Eyebars and eyebolts,
 72. Leather-workers' irons,
 73. Railway-car irons—
 74. Axles and axle-boxes,
 75. Drawbars and couplings,
 76. Railway-track irons,
 77. Spinners' and weavers' irons,
 78. Springs and spring-clips,
 79. Turnbuckles,
 80. Wheels,
 61. Upsetting—
 62. Heading-bars,
 63. Tubular articles,
 Processes.
 82. **Welding—**
 83. Tubes—
 84. Cross-weld—
 85. Rolling,
 86. Spiral-weld,
 87. Rolling—
 88. Rolls and mandrel,
 89. End-closing,
 90. Rolling,
 91. Welding-strips,
 92. Processes—
 93. Dissimilar metals,
 94. Rings and tubes,
 95. Blooms.
 96. **Work-handling mechanism—**
 97. Wire or strip feeding,
 98. Feeding and rotating,
 99. Blank-feeding,
 100. Shifting,
 101. Supports—
 102. Tables.
 103. **Mandrels.**

- 79.—BUTTON-MAKING.***
 1. Miscellaneous.
 2. Shank-buttons.
 3. Metallic—
 4. Covered—
 5. Cloth.
 Pearl and composition—
 6. Surfacing and drilling,
 7. Surfacing—
 8. Tool-sharpening,
 9. Multiple-chuck,
 10. Trimming,
 Drilling—
 11. Multiple-spindle—
 12. Axially-opposite,
 13. Multiple-chuck,
 Single-chuck,
 Single-spindle—
 14. Single-chuck,
 15. Blank-sawing—
 16. Tubular-saw.
 17. Blank-feeders.
 18. Work-supports.
- 80.—METAL-ROLLING.***
 1. Miscellaneous.
 2. Heating and rolling.
 3. Cutting and rolling.
 4. Drawing and rolling.
 5. Annular bodies.
 6. Screw-threads—
 7. Concave and roll,
 8. Platen-rolling—
 9. Dies,
 10. Rods and wires.
 11. Tubes—
 12. Idle rolls,
 13. Axial-rolling,
 14. Segmental rolls,
 15. Skelping.
 16. Wheels and disks.
 17. Reworking.
 18. Concave and roll.
 19. Platen and roll.
 20. Platen-rolling—
 21. Disk platens.
 22. Axial-rolling—
 23. Pattern-rolls.
 24. Die-rolling—
 25. Oscillating rolls,
 26. Blank feeding and gaging,
 27. Continuous,
 28. Three or more coating rolls,
 29. Advancing and receding rolls,
 30. Recurrent-pattern.
 Mills—
 32. Coiling,
 33. Work-reversing,
 34. Three or more coating rolls,
 35. Continuous—
 36. Inclined trains,
 37. Loop-return,
 38. Auxiliary supporting-rolls,
 39. Three-high,
 40. Idle rolls.
 41. Roll cooling and heating.
 42. Cooling-beds.
 43. Feeding—
 44. Tables—
 45. Horizontally and vertically
 movable,
 46. Horizontally-movable,
 47. Vertically-movable,
 48. Shifters—
 49. Horizontally and vertically
 movable carrier,
 Swinging-carrier,
 50. Guides and conductors—
 51. Loop-return,
 52. Work-rotating.
 53. Gearing.
 54. Housings.
 55. Roll adjustments—
 56. Relief devices.
 57. Rolls—
 58. Pass arrangement.
 59. Processes—
 60. Screw-threads,
 61. Tubes,
 62. Rods and wires,
 63. Reworking,
 64. Flanged bars.

- 81.—TOOLS.***
 1. Miscellaneous.
 2. Combined wrenches and pumps
 or oilers.
 3. Special—
 4. Engravers' clamps,
 5. Tweezers,
 6. Watchmakers—
 7. Jewel-setters,
 7.5. Mainspring-winders,
 8. Ruby-pin setters,
 9.1. Sealing,
 9.3. Hose-clamp applicers.
 9.5. Wire-strippers.
 10. Nut-lock.
 13. Bolt-holders.
 15. Bending.
 17. Vises—
 18. Hand,
 19. Round-work,
 20. Turret,
 21. Pivoted-jaw—
 22. Wedge-shaped work,
 23. Adjustable-fulcrum—
 24. Rack,
 25. Cam,
 26. Sliding-jaw, cam,
 27. Rack-lock—
 28. Toothed-nut—
 29. Sectional,
 30. Pivoted rack-catch,
 31. Sliding rack-catch,
 32. Nut-operated,
 33. Screw-operated—
 34. Multiple-intergeared,
 35. Right and left threads,
 36. Displaceable nut or screw,
 37. Interrupted-thread,
 38. Jaw attachments—
 39. Round-work,
 40. Wedge-shaped work,
 41. Mounts,
 42. Parallel mechanisms
 43. Tweezers.
 44. Pliers and tongs—
 45. Expanding,
 46. Locked jaws,
 47. Sliding-jaw,
 48. Crossed handles—
 49. Adjustable-pivot,
 50. Pivoted jaw-piece,
 51. Parallel jaws,
 52. Spring-pressed,
 53. Jaw attachments.
 Wrenches—
 54. Machine—
 55. Bolt-holding—
 56. Gear-operated,
 57. Gear-operated,
 71. Inserted—
 72. Expanding,
 74. Wheel-operated—
 75. Hub-rim grasp—
 76. Internal,
 Hand-grip—
 78. Pivoted-jaw—
 79. Crossed handles—
 80. Non-traveling fulcrum—
 81. Pivoted gripping-piece,
 82. Sliding gripping-piece,
 83. Slotted fulcrum-guide,
 84. Linked jaw and handle,
 85. Sliding-jaw—
 86. Claw-lever and rack,
 87. Lever and cam feed,
 88. Lever and link feed,
 89. Lever and pawl feed,
 58. Clutched-head—
 59. Segmental,
 60. Ratchet—
 61. Pivoted-pawl—
 62. Reversing—
 63. Single,
 64. Flexible—
 65. Threaded-adjustment,
 66. Link—
 67. Claw,
 68. Handle-jaw—
 69. Pivoted,
 70. Duplex,
 73. U-crank arm,
 77. Double-ended, simultaneous
 adjustment,
 91. Multiple pivoted jaws, handle-
 lever grip,
 92. Pivoted inner jaw—
 93. Nut or screw fulcrum,
 94. Pin-fulcrum—
 95. Roller-jaw—
 96. Pinion,
 97. Spring-pressed,

* See Definitions of Revised Classes.

81.—TOOLS—Continued.

Wrenches—Continued.

- Pivoted outer jaw—
- Fixed-fulcrum—
- Non-traveling jaw—
- Spring-pressed,
- Traveling-jaw—
- Nut-fulcrum,
- Rocking-sleeve—
- Spring-pressed—
- Fulcrum-washer,
- Sleeve-inclosed nut,
- Traveling-fulcrum—
- Threaded handle-bar—
- Axially-rotating,
- Slotted-guide,
- Fulcrum-tooth and rack,
- Pivoted side jaw—
- Bevel-closing—
- Axial nut or screw,
- Screw-ring,
- Rotating-ring,
- Wedge,
- Rocking-link,
- Transverse-screw clamp,
- Sliding-jaw, handle-lever grip—
- Claw,
- Sliding-jaw, cam-closing,
- Sliding adjustments—
- Rack—
- Interlocking jaw-handles,
- Locking set screw or nut,
- Pinion-lock,
- Pivoted rack-catch—
- Non-traveling—
- Intermediate-fulcrum,
- Transverse,
- Cam-seated,
- Indirectly-operated,
- Intermediate-fulcrum,
- Shank-engaged cam,
- Sliding rack-catch—
- Cam-seated,
- Screw or nut seated,
- Spring-seated,
- Spring-seated jaw-frame—
- Integral frame and teeth,
- Wedge-lock—
- Wedge-pusher,
- Shank-grip—
- Side-jaw,
- Clutch-yoke,
- Roller-clutch,
- Locking-incline,
- Thread—
- Displaceable half-nut,
- Displaceable nut or screw—
- Traveling-screw, shank-rack,
- Interrupted—
- Nut-set—
- Traveling-nut,
- Traveling-screw, shank-rack,
- Right and left threads,
- Rotating threaded shank,
- Sliding side jaw,
- Non-traveling nut—
- Intermediate—
- Sliding outer jaw,
- Terminal—
- Sliding outer jaw,
- Non-traveling screw—
- Bracket-bearing,
- Shank-sleeved,
- Traveling-nut—
- Threaded handle-bar,
- Traveling-screw—
- Shank-rack,
- Spanners,
- Rigid jaws—
- Round-work,
- Inclosed—
- Watch and clock keys—
- Dust-protectors,
- Safety,
- Work-holding,
- Handles and shanks,
- Reversible jaws,
- Sliding jaw-face,
- Attachments and adjuncts—
- Cutters—
- Rotary,
- Roller-clutch,
- Shank-embracing,
- Socket-reducers,
- Jaw-faces,
- Pipe and rod cutters—**
- Non-traveling, internal,
- Traveling, external—
- Gear-operated,
- Thread-feed—
- Rotary-handle

81.—TOOLS—Continued.

Pipe and rod cutters—Contd.

- Traveling, internal—
- Rotary—
- Wedge-feed,
- Pivoted—
- Cam,
- Handle-jaws,
- Toggle,
- Intergeared handles,
- Sliding—
- Cam,
- Head and socket,
- Lever and link,
- Rack and segment,
- Jaw attachments.

82.—TURNING.*

- 1. **Miscellaneous.**
- 18. **Pattern-section—**
- 19. Cam-controlled cutter.
- 11. **Axial Pattern—**
- 12. Templet-guide,
- 14. Profiled tool-rest,
- 13. Profiled cutter.
- Tapers—**
- 15. Offset work-axis,
- Transversely-shifted cutter—
- Templet-controlled,
- 16. Gear-controlled.
- Lathes—**
- 7. Pulley,
- 8. Wheel and axle,
- 9. Crank and crank-pin—
- 10. Oscillating-work,
- 5. Screw-cutting—
- 5.5. Swinging feed-nut and tool-bar,
- 4. Portable,
- 6. Bench,
- 3. Multiple,
- 20. Hollow cutter-head,
- 21. Carriage-feeds—
- 22. Apron mechanism—
- 23. Feed-nut controllers,
- 24. Slide-rests—
- 25. Multiple tool-support,
- 26. Change-gears,
- 27. Feed screws and rods,
- 28. Head-stocks—
- 29. Speed-changing gear,
- 30. Spindles and bearings,
- 31. Tail-stocks,
- 32. Beds,
- 33. Centers,
- 34. Attachments.
- Rests—**
- 35. Tool and work,
- 36. Tool—
- 37. Tool-posts,
- 38. Work—
- 39. Center-rests.
- Work-drivers—**
- 41. Lathe-dogs—
- 42. Cam-grip,
- 43. Mandrels—
- 44. Expandible.
- 45. **Centerers.**

83.—MILLS.

Amalgamators—

- 65. Electric,
- 66. Lead,
- 67. Mercury,
- 68. Plate,
- 69. Vacuum,
- 70. Vapor.
- 92. **Assorters, miscellaneous auto-matic.**
- Bagging grain—**
- 26. Bag-holders.
- 74. **Chip-graders.**
- Chop-graders—**
- 50. Bran-dusters, beaters,
- 51. Bran-dusters, brushes,
- 49. Electric purifiers,
- 42. Flour processes,
- 40. Gravity,
- 39. Rotary bolts,
- 38. Shaking-bolts.
- Dust-collectors—**
- 47. Reciprocating,
- 48. Rotating.

83.—MILLS—Continued.

Grain-scourers—

- 32. Centrifugal,
- 36. Concave-face,
- 31. Conical,
- 30. Cylinder, horizontal,
- 29. Cylinder, vertical,
- 37. Disk-face,
- 33. Pestle-action,
- 35. Reciprocating and endless,
- Screw-action.
- Grinding-mills—**
- 17. Balancing millstones,
- 9. Ball and drum,
- 45. Chasing,
- 18. Coffee,
- 10. Compound-movement,
- 13. Cone and shell,
- 12. Crushing-rolls,
- 14. Cylinder and concave,
- 7. Disk-action, horizontal,
- 8. Disk-action, vertical,
- 44. Feed-regulators,
- 15. Grain-samplers,
- 16. Grist-alarms,
- 23. Hominy,
- 46. Impact-pulverizers,
- 6. Knife-action,
- 1. Mill-spindles,
- 3. Millstone-dress,
- 4. Millstone-exhaust,
- 2. Millstone-trams,
- 22. Paint,
- 11. Rotary beaters.
- Liquid comminuting and solidifying.**
- 73. **Mortar-mixers.**
- Ore and coal—**
- 52. Coal-breakers,
- 53. Crushers,
- 63. Ice-crushers,
- 62. Ice picks and shavers,
- 72. Placer-mining—
- 76. Excavating and dredging,
- 77. Hydraulic,
- 78. Thermal and solvent,
- Separators—**
- 54. Dry,
- 58. Jiggers—
- 79. Piston-movement,
- 80. Sieve-movement,
- 71. Magnetic,
- 59. Washers—
- 81. Agitators and conveyers,
- 82. Classifying and separating tanks,
- 83. Endless-apron,
- 84. Processes—
- 85. Buoyant,
- 86. Rotary drums, horizontal axis,
- 87. Rotary pans and stirrers, vertical axis,
- 88. Shaking-tables,
- 89. Stationary troughs and tables,
- 56. Sifters and screens—
- 60. Household,
- 57. Stamps.
- Preparing grain—**
- 28. Processes,
- 27. Steaming and dampening.
- 64. **Steam-boiler and flue scrapers.**
- 90. **Steam-separators.**
- 61. Sugar and salt crushers.
- 75. **Wood and bark.**

84.—MUSIC.

- 1. **Accordions.**
- 82. **Autoharps.**
- Automatic instruments—**
- Details—
- 159. Cases,
- 160. Expression devices,
- 161. Selectors—
- 162. Note-sheets—
- 163. Projections,
- 165. Trackers,
- 166. Winding and rewinding,
- 167. Wind devices—
- 168. Expression,
- 169. Pedals,
- General structure—**
- 170. Cylinder,
- 171. Disk—
- 173. Self-setting,
- 174. Electric,

*See Definitions of Revised Classes.

84.—MUSIC—Continued.

Automatic instruments—Contd.
General structure—Continued.

- Mechanical—
 - 175. With controller—
 - 176. Electric,
 - 177. Pneumatic,
 - 178. Pneumatic—
 - 179. Cylinder-control,
 - 180. Self-setting,
 - 181. Keyboard-players—
 - 182. Cases, coupling,
 - 183. Cylinder,
 - 184. Disk,
 - 185. Electric,
 - 186. Mechanical—
 - 187. Disk-control,
 - 188. Electric-control—
 - 189. Cylinder,
 - 190. Pneumatic-control,
 - 191. Pneumatic—
 - 192. Cylinder-control,
 - 193. Orchestrions—
 - 194. Disk-control,
 - 195. Electropneumatic,
 - Mechanical—
 - 196. Cylinder-control,
 - 197. Pneumatic-control,
 - 198. Pneumatic,
 - 199. Percussion—
 - 200. Cylinder,
 - 201. Disk,
 - 202. Electric—
 - 203. Disk-control,
 - Mechanical—
 - 204. Cylinder-control,
 - 205. Pneumatic-control,
 - 206. Pneumatic—
 - 207. Cylinder-control,
 - 208. Spurs and picks—
 - 209. Cylinder,
 - 210. Disk—
 - 211. Self-setting,
 - Mechanical—
 - 212. With controller—
 - 213. Disk,
 - 214. Pneumatic,
 - 215. Stringed—
 - 216. Cylinder,
 - 217. Disk,
 - 218. Electric—
 - 219. Cylinder-control,
 - Mechanical—
 - 220. With controller—
 - 221. Cylinder,
 - 222. Pneumatic,
 - 226. Pianos—
 - 227. Cylinder,
 - 228. Electric,
 - 229. Electropneumatic,
 - Mechanical—
 - 230. With controller—
 - 231. Electric,
 - 232. Pneumatic,
 - 233. Pneumatic—
 - 234. Cylinder-control,
 - 235. Pneumatic—
 - 236. Cylinder-control,
 - 237. Self-setting,
 - 238. Wind—
 - 239. Cylinder,
 - 240. Disk,
 - Mechanical—
 - 241. Pneumatic-control,
 - 247. Organettes—
 - 248. Cylinder,
 - 249. Disk,
 - 250. Organs—
 - 251. Cylinder,
 - 252. Disk,
 - 253. Electropneumatic,
 - 254. Mechanical—
 - 255. With controller—
 - 256. Pneumatic,
 - 257. Pneumatic,
 - 53. Auxiliary strings.
 - 120. Banjo-bridges.
 - 121. Banjos—
 - 122. Mutes,
 - 123. Necks,
 - 124. Resonators.
 - 85. Charts—
 - 86. Harmony and transposition,
 - 7. Clarinets and flutes.
 - 55. Combined organ and piano.
 - 125. Cornet-mutes.
 - 8. Cornets and trumpets.
 - 9. Couplers—
 - 126. Pneumatic.
 - 10. Drums—
 - 127. Snare.

84.—MUSIC—Continued.

- 81. Electric actions—
 - 128. Couplers,
 - 131. Sostenuito.
- 151. Enharmonic devices.
- Exercising devices.
 - 91. Hand attachments,
 - 92. Keyboard,
 - 93. Keyboard attachments
 - 94. Vocal.
- 87. Finger-boards.
- 132. Guitar-bridges.
- 133. Guitars—
 - 134. Capo-tasto.
- 12. Harmonic attachments.
- 56. Harmonic dampers—
 - 83. Violin.
- 13. Harmonicas—
 - 88. Supports.
- 14. Harps.
- 48. Indicators—
 - 150. Keyboard attachments.
- 15. Insulators.
- 58. Key-holding devices.
- 16. Keys and keyboards—
 - 96. Touch-regulators.
- 49. Knee-swells.
- 17. Leaf-turners—
 - 135. Spring and gravity.
- 136. Mandolin-bridges.
- 137. Mandolins.
- 79. Mouthpieces.
- 89. Musical blocks.
- 18. Notation.
- Organ—
 - 19. Actions—
 - 95. Electropneumatic,
 - 20. Pneumatic,
 - 156. Valves and valve seats,
 - 50. Bellows,
 - 21. Cases,
 - 22. Pipes,
 - 59. Stop-actions—
 - 54. Combination,
 - 23. Swells,
 - 47. Wind-chests.
 - Organs—
 - 90. Pedal-bass,
 - 32. Pipe,
 - 35. Reed—
 - 36. Attachments for,
 - 111. Folding,
 - 112. With pipes,
 - 38. Steam.
 - 24. Pedals—
 - 97. Auxiliary,
 - 98. Guards,
 - 99. Locks.
 - 61. Pianissimo devices.
- Piano—
 - 26. Actions—
 - 100. Dampers,
 - 101. Flanges,
 - 102. Frames,
 - 103. Hammers,
 - 60. Pedal,
 - 104. Plectrum,
 - 138. Agraffes,
 - 27. Attachments,
 - 139. Bridges,
 - 140. Capo-tasto bars,
 - 52. Cases—
 - 118. Desks,
 - 119. Fall-boards,
 - 141. Knockdown,
 - 148. Lid-props,
 - 149. Swells,
 - 28. Frames,
 - 29. Legs,
 - 30. Sounding-boards,
 - 144. String-plates,
 - 40. Stringing,
 - 67. Tuning-pins—
 - 105. Coupling-clamp,
 - 106. Direct-pull,
 - 107. Lever,
 - 108. Presser-deflectors,
 - 109. Push-rod and carrier,
 - 110. Worm-gear.
 - Piano-violins.
 - Pianos—
 - 142. Forte devices,
 - 70. Sostenuito,
 - 143. Tone-modifiers,
 - 31. Without strings.
 - 68. Recording attachments.
 - 34. Reed-boards.
 - 33. Reeds.
 - 69. Solo attachments.
 - 146. Tailpieces—
 - 147. Reel,
 - 41. Transposers.

84.—MUSIC—Continued.

- 42. Tremolos.
- 43. Tuning instruments.
- Violin—
 - 72. Bows,
 - 73. Bridges,
 - 74. Chin-rests,
 - 75. Dampers and mutes,
 - 78. Tuning-pegs.
- 44. Violins—
 - 76. Practice,
 - 115. Supports.
- 80. Zithers—
 - 116. Keyed,
 - 117. Picks.

85.—DRIVEN, HEADED, AND SCREW-THREADED FASTENINGS.*

- 1. Bolts.
 - 1.5. Stay,
 - 2. Expanding-core,
 - 2.4. Expanding-sleeve—
 - 2.8. Double-wedge,
 - 3. Pivoted end-lock,
 - 4. Lapped,
 - 5. Threadless—
 - 6. Axial-wedge,
 - 7. Key-lock—
 - 8. Bifurcated,
 - 9. Heads.
- 32. Nuts—
 - 36.5. Turnbuckles,
 - 35. Capped,
 - 33. Adjustable-thread,
 - 36. Threadless,
 - 34. Blanks.
- Screws—
 - 41. Double-ended,
 - 42. Countersinking,
 - 44. Drive,
 - 45. Driving contacts,
 - 46. Threads—
 - 47. Interrupted,
 - 48. Rolled.
- Rivets—
 - 37. Divided,
 - 38. Double-clench,
 - 39. Hollow,
 - 40. Staples.
- Nails, spikes, and tacks—
 - 10. Horseshoe-nails,
 - 12. Glaziers' points,
 - 15. Multiple-pronged,
 - 13. Double-ended,
 - 14. Locking devices—
 - 23. Rail-flange,
 - 24. Rail-read,
 - 25. Point-spreaders,
 - 26. Transverse-key,
 - 11. Sheet-metal,
 - 16. Tacks—
 - 17. Strips,
 - 18. String-nails,
 - 22. Threaded and indented wire,
 - 21. Barbed and indented,
 - 19. Longitudinally-ribbed,
 - 20. Spiral-shank,
 - 28. Heads—
 - 29. Pronged,
 - 30. Points—
 - 31. Deflecting.
 - 50. Washers—
 - 51. Removable,
 - 52. Ornamental.
 - 53. Ornamental heads—
 - 54. Molded,
 - 55. Clip-attached,
 - 56. Screw-attached.

86.—ARMS, PROJECTILES, AND EXPLOSIVE CHARGES, MAKING.*

- 1. Miscellaneous.
- 2. Ordnance—
 - 3. Processes.
- 4. Gun-barrels.
- 5. Rifling.
- Ammunition-making—
 - 6. Shells,
 - 7. Bullets and shot—
 - 8. Bullet-swaging,
 - 9. Processes,

* See Definitions of Revised Classes.

86.—ARMS, PROJECTILES, AND EXPLOSIVE CHARGES, MAKING—Continued.

- Ammunition-making—Contd.
- 10. Caps and cartridges—
- 11. Paper shells—
- 12. Assembling,
- 14. Shell-heading,
- 15. Shell tapering and necking,
- 16. Shell-trimming,
- 17. Shell lining and varnishing,
- 18. Processes,
- 19. Lubricating,
- 20. Loading fireworks and blasting charges—
- 21. Implements—
- 22. Fuse.
- 23. Ammunition-loading—
- 25. Loading and shell-closing—
- 26. Rectilinear shell-feed,
- 27. Rotary shell-feed,
- 28. Implements,
- 29. Filling and ramming—
- 30. Rammers,
- 31. Filling—
- 32. Cap and cartridge priming,
- 33. Implements,
- 36. Capping and uncapping—
- 37. Implements—
- 38. Magazine,
- 39. Crimping—
- 40. Implements,
- 41. Crimper-heads,
- 42. Bullet-patching,
- 43. Bullet-setting,
- 44. Shell-holders,
- 45. Implements.
- 45. Feeding devices—
- 46. Shell.
- 47. Cartridge-packing.

87.—OILS, FATS, AND GLUE.

- 17. Adhesives.
- 3. Candle apparatus.
- 21. Candles.
- 4. Decomposing fats.
- 5. Detergents.
- 6. Extracting oils.
- 7. Glue.
- 9. Lubricants.
- 12. Refining fat-oils.
- 13. Rendering.
- 23. Soap articles.
- 16. Soap manufacture.
- 26. Suint.
- 19. Wax.

88.—OPTICS.*

- 1. Miscellaneous.
- 1.5. Camera finders.
- Geometrical instruments—
- 2.2. Fiducial—
- 2.3. Single deflected image—
- 2.4. Deflection-adjustment,
- 2.6. Multiple deflected image—
- 2.7. Deflection-adjustment.
- 56. Lens-testers.
- 14. Testing instruments.
- 15. Kaleidoscopes.
- 16. Motion-picture apparatus—
- 16.2. Combined with sound-producers,
- 16.4. Color,
- 16.6. Multiplex,
- 16.8. Optical rectifiers,
- 17. Picture-strip—
- 18. Intermittent-feed—
- 18.2. Intermittently-rotated feed-drum—
- 18.3. Geneva-gear type,
- 18.4. Intermittent-grip type—
- 18.5. Rotary,
- 18.6. Film-beater type,
- 18.7. Non-rewinding,
- 18.8. Rotary picture-disk,
- 19. Book-leaf type,
- 19.1. Unconnected picture-plates,
- 19.3. Shutters—
- 19.4. Speed-controlled,
- 19.5. Picture vehicles and elements.
- 20. Optometers—
- 22. Multiple-lens.
- 23. Photometers.

88.—OPTICS—Continued.

- 24. Projecting apparatus—
- 25. Heliostats,
- 26. Magic lanterns—
- 27. Rotary slide-carrier,
- 28. View-changing devices.
- 29. Stereoscopes—
- 30. Album,
- 31. View-changing.
- 32. Telescopes—
- 33. Prismatic,
- 34. Field and opera glasses—
- 35. Folding and collapsible,
- 36. Supports—
- 37. Focusing,
- 38. Reflecting attachments.
- 39. Microscopes—
- 40. Accessories.
- 41. Eyeglasses and spectacles—
- 42. Connections,
- 43. Bridges—
- 44. Folding,
- 45. Spring—
- 46. Bar,
- 47. Lens-mounts,
- 48. Nose-grips—
- 49. Adjustable—
- 50. Automatic,
- 51. Supports,
- 52. Temples—
- 53. Connections.
- 54. Lenses,
- 55. Nose-guards.
- 57.5. Building-lights—
- 58. Canopy,
- 59. Vault,
- 60. Window.
- 57. Lenses.
- 67. Window-reflectors.

89.—ORDNANCE.*

- 1. Miscellaneous.
- 5. Submarine.
- Automatic—
- 2. Gas-operated,
- 3. Recoil-operated.
- 4. Semi-automatic.
- 6. Pneumatic—
- 7. Explosive charge.
- 8. Accelerating.
- 9. Machine-guns—
- 10. Centrifugal,
- 11. Axially-moving breech-block,
- 12. Revolving barrels,
- 13. Revolving-cylinder.
- 14. Barrels—
- 15. Wound,
- 16. Composite.
- 17. Breech-closures—
- 18. Key-locked,
- 19. Screw—
- 20. Interrupted—
- 21. Fixed-ammunition,
- 22. Transverse—
- 23. Sliding and swinging,
- 24. Sliding,
- 25. Swinging.
- 26. Gas-checks.
- 27. Firing devices—
- 28. Electric.
- 29. Practice-barrels.
- 30. Vents and stoppers.
- 31. Tompions and valves.
- 33. Cartridge-feeding—
- 34. Holders,
- 35. Belts.
- 36. Shields.
- 37. Mounts—
- 38. Disappearing-gun—
- 39. Counterpoise,
- 40. Field,
- 41. Training mechanisms,
- 42. Recoil-checks—
- 43. Fluid,
- 44. Spring.
- 45. Loading—
- 46. Hoisting apparatus,
- 47. Rammers.

90.—GEAR-CUTTING, MILLING, AND PLANING.*

- 1. Gear-cutting—
- 2. Intermeshing-generator,
- 3. Rotating-cutter—
- 4. Helical gears,
- 5. Bevel-gears,
- 6. Blank-pillar and cutter-slide,
- 7. Axially-traveling,
- 8. Reciprocating-cutter—
- 9. Tooth-curve generating,
- 10. Templet-guide.
- 11. Milling—
- 12. Portable—
- 12.5. Valve-reitting,
- 13. Pattern-controlled—
- 13.1. Reproducing—
- 13.2. Duplicating—
- 13.3. Rotary work—
- 13.4. Automatic.
- 13.5. Automatic.
- 13.6. Rotary work—
- 13.7. Automatic.
- 13.8. Automatic.
- 13.9. Rotary work.
- Movable cutter-axis—
- 14. Axial,
- 15. Lateral,
- 16. Adjustable cutter-axis—
- 17. Angular,
- 18. Stationary cutter-axis—
- 19. Vertical,
- 20. Rotating work-holder,
- 21. Work-leads—
- 22. Backlash-compensators,
- 23. Tail-stocks.
- 24. Planing—
- 24.3. Pattern-controlled—
- 24.4. Electromagnetically-controlled tool—
- 24.5. Rotary-work,
- 25. Soft-metal—
- 26. Cylindrical stereotyped,
- 27. Double-rack cutter-drive,
- 28. Roller-feed,
- Curved surfaces—
- 29. Roll-grooving,
- 30. Cycloids,
- 31. Laterally-moving cutter,
- 32. Laterally-moving work,
- 33. Broaching,
- Planers—
- 34. Reciprocating-bed—
- 35. Rack-drive,
- 36. Screw-drive,
- 37. Cross-rails,
- Reciprocating-cutter—
- 38. Horizontal—
- 39. Oscillating link-drive,
- 40. Crank-drive,
- 41. Rack-drive,
- 42. Screw-drive,
- 43. Vertical—
- 44. Crank-drive—
- 45. Inverted,
- 46. Rack-drive—
- 47. Inverted,
- Reversing mechanisms,
- 48. Tool-feeds—
- 49. Clutch-boxes,
- 50. Stop mechanisms,
- 51. Tool-heads—
- 52. Oscillating double cutter,
- 53. Pivoted cutter-release,
- 54. Cutter-lifters.
- 55. Indexing—
- 56. Index-heads.
- 57. Work-tables.
- 58. Work-holders—
- 59. Machine-vises—
- 60. Angularly-adjustable jaws.
- 61. Patterns, tracers and tools.

91.—COATING.*

- Special machines—
- 1. Bordering letter-paper,
- 2. Confections and pills—
- 3. Fountain,
- 4. Immersion—
- 5. Chargers,
- 6. Dipping implements,
- 7. Rumble,
- 7.5. Electrotype-molds,
- 10. Photographic film and plate,
- 11. Pitching casks,
- With metal—
- 12.1. Combined machines,
- 12.2. Miscellaneous,

* See Definitions of Revised Classes.

91.—COATING—Continued.

Special machines—Continued.

- With metal—Continued.
- 12.3. Plates—
 - 12.4. Mirrors,
 - 12.5. Immersion—
 - 12.6. Work-conveying—
 - 12.7. Rolls,
 - 8. Flocking,
 - 9. Marbling,
 - 12. Stripping—
 - 12.01 Yarn.
 - 13. Combined machines—
 - 13.4. Dampening and press-copying—
 - 13.5. Immersion,
 - 13.6. Roller, tank-feed,
 - 13.7. Web-dampener,
 - 14. Coating and cutting—
 - 14.5. Strip-servers,
 - 15. Coating and folding,
 - 16. Coating and printing,
 - 17. Coating and stretching.
 - 18. Machines—
 - 19. Brush, fountain, and roller,
 - 20. Brush, fountain, and scraper,
 - 21. Brush, immersion, and roller,
 - 22. Brush, immersion, and scraper,
 - 23. Fountain, roller, and web,
 - 24. Immersion, roller, and scraper,
 - 25. Brush and fountain,
 - 26. Brush and immersion,
 - 27. Brush and roller,
 - 28. Brush and web,
 - 29. Fountain and roller,
 - 30. Fountain and scraper,
 - 31. Immersion and roller,
 - 32. Immersion and scraper,
 - 33. Roller and scraper,
 - 34. Roller and web,
 - 35. Scraper and web,
 - 36. Abrasion,
 - 37. Brush—
 - 38. Capillary-feed,
 - 39. Fountain-feed,
 - 40. Roller-feed,
 - 41. Tank-feed,
 - 42. Centrifugal,
 - 43. Fountain—
 - 44. Projection—
 - 45. Air-brush,
 - 46. Immersion,
 - 47. Impression,
 - 48. Roller—
 - 49. Fountain-feed,
 - 50. Roller-feed,
 - 51. Tank-feed,
 - 52. Rumble,
 - 53. Scraper,
 - 54. Web.
 - 54.3. Copying-pad baths.
 - 54.4. Pads—
 - 54.5. Inking,
 - 54.6. Copying.
 - With metal—
 - 59.1. Finishing—
 - 59.2. Rolls,
 - 59.3. Separators,
 - 59.4. Wipers,
 - 59.8. Crystallizing.
 - 55. Driers and coolers.
 - 56. Elevating devices.
 - 57. Mixers and stirrers.
 - 58. Strippers.
 - 59. Wipers and dusters.
 - 60. Work-holders—
 - 61. Enameling-tables,
 - 62. Gripper mechanisms.
 - 62.5. Implements—
 - 63. Brush holders and cleaners,
 - 64. Painters' hooks,
 - 65. Paint-protectors,
 - 66. Pots,
 - 67. Sanders,
 - 67.1. Mucilage-holders—
 - 67.2. Brushes—
 - 67.3. Scrapers,
 - 67.4. Spreaders—
 - 67.5. Flexible-cap.
 - 67.8. Roller structure.
 - 67.9. Fabric coating and printing.
 - 68. Processes—
 - 69. Photographic film and plate,
 - 70. With heat—
 - 70.1. With metal—
 - 70.2. Molten—
 - 70.3. Preparation,
 - 71. Japaning,
 - 72. Vitreous—
 - 73. On metal,
 - 68.1. With metal—
 - 68.2. Combined with electrodeposition,
 - 68.3. Precipitation

92.—PAPER-MAKING AND FIBER

LIBERATION.*

- 1. Stock treatment—
- 2. By-product recovery,
- 6. Combined grinding and digesting.
- 7. Digestive—
- 11. Acid, sulfurous—
- 12. Fiber,
- 13. Alkaline—
- 14. Special paper-stock,
- 16. Bleaching feature—
- 17. Fiber,
- 15. Fiber,
- 9. Miscellaneous reagents—
- 10. Fiber,
- 8. Fiber,
- 18. Rotary digesters,
- 19. Shells and linings,
- 3. Special paper-stock,
- 4. Fiber—
- 5. Bacteria.
- 20. Stuff-working—
- 21. Special-material incorporating,
- 22. Beating-engines—
- 23. Screen-attachment,
- 24. Horizontal-course,
- 25. Vertical-course,
- 26. Refining-engines—
- 27. Cone and shell,
- 28. Sand-separators,
- 29. Strainers—
- 30. Flat-screen—
- 31. Horizontal stationary—
- 32. Vertically-vibrating diaphragm,
- 33. Shaking,
- 34. Cylindrical stationary screen,
- 35. Cylindrical rotating screen, outward flow,
- 36. Cylindrical rotating screen, inward flow,
- 37. Stuff-chests.
- Web-forming—
- 39. Special work—
- 40. Special-material incorporating—
- 41. Cylinder-machines,
- 42. Cylinder-machines,
- 43. Cylinder-machines,
- 44. Fourdrinier machines—
- 45. Shake-frames,
- 46. Feed-regulators,
- 47. Couch-rolls,
- 48. Dandy-rolls and water-marking devices,
- 49. Press rolls and felts,
- 50. Felt and wire cleaners,
- 51. Suction-boxes—
- 52. Traveling-face—
- 53. Cylindrical.
- Pulp-molding—
- 55. Special-material and object incorporating,
- 56. Combined submerging and compressing,
- 57. Submerged-mold,
- 58. Centrifugal-action,
- 59. Compressors—
- 60. Elastic-diaphragm,
- 61. Sheet and board forming,
- 62. Contractible-matrix—
- 63. Piston-closing,
- 64. Toggle-closing,
- 65. Wedge-closing,
- 66. Winders—
- 67. Sheet and board forming.
- Finishing—
- 69. Wrinkling,
- 70. Flexibility-imparting,
- 71. Calenders—
- 72. Reciprocating-polisher,
- 73. Stacked-rolls type—
- 74. Doctors and guides,
- 75. Pressure-regulators,
- 76. Damping devices,
- 77. Rolls.

93.—PAPER MANUFACTURES.*

- 1. Miscellaneous.
- Wrapping-machines—
- 2. Miscellaneous,
- 3. Receptacle making and filling,
- 4. Packet making and wrapping,
- 6. Receptacle filling and closing,
- 5. Crimpers and twisters.
- Traveling-carrier.

93.—PAPER MANUFACTURES—Con.

Bag-machines—

- 8. Miscellaneous,
- Triangular-fold—
- 9. Blade-and-roller,
- 10. Mandrel,
- 11. Plate-mandrel,
- 12. Rectangular-mandrel,
- 13. Central-fold,
- 14. Web-formers, cutters, openers, and closers—
- 15. Openers, roll,
- 16. Openers, side,
- 17. Web-formers, cutters and openers,
- 18. Web-formers, cutters and closers,
- 19. Web-formers and cutters,
- 20. Web-formers,
- 21. Cutters, openers, and closers,
- 22. Openers and closers—
- 23. Openers, roll,
- 24. Openers, side,
- 25. Cutters and openers,
- 26. Cutters and closers,
- 27. Closers,
- 28. Openers—
- 29. Roll,
- 30. Side,
- 31. Hand bottom-folders, tables,
- 32. Refolders,
- 33. Cutting,
- 34. Printing attachments, Methods.
- 35. Box-machines—
- 36. Miscellaneous,
- 37. Cell-cases—
- 38. Traveling-carrier, shifting-form,
- 39. Folding and setting-up,
- 40. Folding and covering,
- 41. Folding and staying,
- 42. Folding and stapling,
- 43. Setting-up and covering,
- 44. Endless-mandrel carrier,
- 45. Folding, web-supply—
- 46. Driers,
- 47. Plunger-and-die,
- 48. Stationary folders,
- 49. Folding—
- 50. Driers,
- 51. Plunger-and-die,
- 52. Stationary folders,
- 53. Refolders,
- 54. Covering,
- 55. Setting-up,
- 56. Staying,
- 57. Fly-affixers,
- 58. Cutting and scoring,
- 59. Mandrels and dies,
- 60. Plaiting.
- Envelop-machines—
- 61. Miscellaneous,
- Rotary—
- 62. Blank-supply,
- 63. Web-supply,
- Reciprocating—
- 64. Web-supply,
- 65. Turret,
- 66. Gumming and folding,
- 67. Folding,
- 68. Gumming—
- 69. Picker-faces,
- 70. Creasing mechanism,
- 71. Carrying mechanism,
- 72. Ejecting mechanism,
- 73. Printing and stamping,
- 74. Drying—
- 75. Chain-discharging,
- 76. Thread-affixers.
- Tube-machines—
- 77. Miscellaneous—
- 78. Fuse-making,
- 79. Tapering-wind,
- 80. Spiral-wind,
- 81. Convolute-wind,
- 82. Axial-feed,
- 83. Sizing and burnishing.
- Tag-machines—
- 87. Miscellaneous,
- 88. Pin-ticket making and attaching,
- 89. Pin-ticket making,
- 90. Eyeletting,
- 91. String-attaching,
- 92. Washer-attaching.
- Folding—
- 84. Miscellaneous,
- 85. Powder-paper machines,
- 86. Radial-fold.
- Bunching and banding.
- 93. Tubes.
- 94. Tubes.

*See Definitions of Revised Classes.

94.—PAVING.

2. Gutters.
9. Mixers.
- Pavements—
 1. Concrete,
 5. Iron,
 8. Stone,
 5. Wood.
4. Road-rammers.
10. Roads.
6. Tools.
7. Vault-covers.

95.—PHOTOGRAPHY.*

1. Miscellaneous
- 1.1. Exposure identification.
2. Color.
3. Daguerreotypy—
 4. Vises.
- 4.5. Phototypographs.
6. Sensitizing and developing.
7. Sensitizing.
8. Surfaces—
 9. Films.
10. Actinometers.
11. Cameras—
 12. Combination,
 - 12.5. Aerial,
 13. Developing—
 14. Automatic,
 15. Panoramic—
 16. Concave-surface,
 17. Convex-surface,
 18. Simultaneous-exposure,
 19. Magazine—
 20. Hand-changed plate,
 21. Tilting-magazine,
 22. Flexible plate-carrier,
 23. Sliding-plate—
 24. Sliding and return,
 25. Continuous guides,
 26. Intermediate exposure-chamber,
 27. Quarter-turned plate—
 28. Tilting—
 29. Base-guides,
 30. Rear-plate replacing,
 31. Roll-holding—
 32. Folding—
 33. Hinged-bellows,
 34. Posterior rolls,
 36. Successive plate-section—
 37. Shifting lens or plate—
 38. Rotary,
 39. Folding—
 40. Hinged-base,
 41. Plate-holder storage,
 42. Exposure-lens finder,
 44. Focusing—
 45. Adjusting mechanism,
 46. Guides and locks,
 47. Hoods,
 48. Reversible-back,
 49. Ground glasses and frames,
 50. Swing front or back,
 51. Shift front or back,
 53. Shutters—
 54. Fluid-operating mechanisms
 55. Sliding—
 56. Opposite-movement,
 57. Curtain,
 58. Pivoted—
 59. Blade—
 60. Blade and cover blind,
 61. Rotary,
 62. Opposite-movement—
 63. Symmetrical-opening,
 64. Diaphragms,
 65. Vignettors,
 66. Plate-holders—
 67. Light-seals,
 68. Plate-fastenings and kits—
 69. Adjustable,
 70. Solution-drains and resistants,
 71. Closure locks and checks.
 72. Auxiliary.
 86. Camera-supports.
 73. Printing—
 74. Superposed negative,
 75. Continuous-film,
 76. Fluid-pressure contact,
 77. Frames—
 - 77.5. Cylindrical,
 78. Stands,
 79. Vignetting—
 80. Frame-attaching mechanisms
 81. Screens—
 - 81.5. Color.

95.—PHOTOGRAPHY—Continued.

82. Studios.
83. Backgrounds—
 84. Rolling-curtain.
85. Models.
88. Developing.
89. Fluid-treating apparatus—
 90. Dark cabinets—
 - 90.5. Roll-film,
 91. Hand-insertion—
 92. Ventilated,
 93. Rotating carriers,
 94. Film-guides,
 95. Trays,
 96. Tanks—
 97. Washing—
 98. Plate-supporting,
 99. Rocking mechanisms,
 100. Work-handling devices.
 101. Retouching—
 102. Stands—
 103. Vibrating.
 104. Burnishing—
 105. Rotary machines—
 106. Internally-heated.
 5. Processes—
 - 5.1. Multicolor-printing surface—
 - 5.2. Planographic,
 - 5.3. Photo-etching,
 - 5.4. Planographic printing-surface,
 - 5.5. Vitreous colors,
 - 5.6. Relief or intaglio—
 - 5.7. Photo-etching.

97.—PLOWS.

1. Attachments—
 44. Harrow.
2. Beams.
3. Cleaners.
4. Clevises.
6. Coilers—
 43. Rolling.
5. Corn-covers.
8. Cotton-choppers—
 45. Reciprocating,
 46. Revolving—
 61. Chopper-heads,
 47. Horizontal,
 48. Scrapers,
 49. Spacing-wheels.
 9. Cotton-scrappers.
 7. Couplings.
 11. Cultivator-teeth.
 10. Cultivators—
 41. Hand—
 42. Wheel,
 20. Parallel,
 37. Revolving,
 38. Rolling,
 25. Rotary—
 39. Horizontal,
 31. Straddle-row,
 34. Wheel—
 35. Straddle-row.
 79. Earth - working - element scrapers—
 80. Gang.
 77. Earth-working-element sharp-eners.
 13. Fenders.
 14. Gage wheels and runners.
 15. Handles.
 17. Landsides.
 18. Moldboards—
 23. Revolving.
 21. Plows—
 12. Ditching,
 40. Revolving,
 26. Shovel,
 27. Sidehill,
 30. Steam—
 50. Alternating,
 81. Automatic steering devices,
 66. Endless-chain,
 67. Gang—
 60. Adjusting devices,
 68. Frames,
 69. Plow units,
 70. Lifts—
 - Power-operated—
 59. Furrow-evening devices,
 - Rotary—
 71. Cylinder,
 51. Horizontal,
 52. Spiral,
 53. Spaders,
 - Wheel—
 36. Guide-wheels—
 74. Multiple—
 75. Adjustable,

97.—PLOWS—Continued.

- Plows—Continued.
- Wheel—Continued.
- Lifts—
 76. Compound,
 58. Foot-operated,
 54. Power-operated,
 55. Axle-clutch,
 56. Draft-link,
 57. Lifting-leg.
22. Points.
24. Ridgers.
62. Rotary earth - working elements—
 63. Cylinders,
 64. Disks,
 78. Gangs,
 65. Spirals.
 28. Sod-cutters.
 29. Standards.
 32. Subsoilers.
 33. Weed-turners.

98.—PNEUMATICS.

- Chimney-cowls—
 - Ejector—
 3. Directing-vane,
 2. Draft-wheel,
 4. Stationary,
 5. Swing-valve,
 6. Tilting,
 7. Vane and draft-wheel,
 8. Injector,
 9. Injector-ejector.
 49. Registers—
 50. Air-distributor,
 51. Air-moistening attachments,
 52. Border or frame,
 53. Flush-surface,
 54. Wall.
 30. Ventilating-chimneys.
- Ventilation—
 39. Air moistening, cooling, and cleansing—
 44. Absorbent-surface,
 40. Atomizers,
 41. Centrifugal,
 42. Drip-surfaces,
 48. Dry filters,
 43. Sprinkling-chamber,
 47. Vaporizing-pans,
 45. Water-tanks—
 46. Spray-wheel,
 - Car—
 - Fans—
 17. Axle-driven,
 18. Wind-driven,
 - Forced-draft—
 19. Axle-motor,
 20. Wind-motor,
 - Natural-draft—
 21. Dust and draft guards,
 22. Injectors and ejectors,
 23. Systems,
 24. Train-pipe,
 33. Combined ventilators and cleaners—
 34. Absorbent-surface,
 35. Drip-surface,
 38. Dry filters,
 36. Water-tanks—
 37. Spray-wheel,
 25. Flue-heaters,
 26. Grain,
 55. Hoods,
 27. House,
 28. Mine.
 31. Window-ventilators—
 32. Condensation-preventers.

99.—PRESERVING.

1. Antiseptics.
2. Apparatus.
5. Desiccation.
6. Egg-testers.
8. Exclusion of air.
11. Food compounds—
 13. Artificial butter.
9. Fumigation.
15. Liquid-sterilizing.
10. Panification.
14. Refrigerating.
12. Wood saturation.

*See Definitions of Revised Classes.

100.—PRESSES.

- Baling—**
 - Articles and attachments—
 - 15. Bale-band-tighteners,
 - 16. Bale-ejectors,
 - 14. Bales and bale-covers,
 - 20. Binders,
 - 19. Boxes and frames,
 - 21. Brakes,
 - 22. Condensers,
 - 23. Discharge-end-contracting devices,
 - 24. Division-blocks and block-inserters,
 - 25. Feeders,
 - 28. Movable bale-boxes,
 - 29. Plungers,
 - 30. Retainers,
 - 1. Belt and roller,
 - Plunger—
 - 2. Cam,
 - 3. Crank and pitman,
 - 4. Lever,
 - 5. Rack-bar and pinion,
 - 6. Ratchet and grapple bar,
 - 7. Rebounding,
 - 8. Screw,
 - 11. Thrust-bar,
 - 9. Toggle-joint,
 - 10. Toggle-joint, inverted,
 - 12. Windlass,
 - 13. Screw,
 - 65. Traction-operated.
- Bundling—**
 - 31. In lengths,
 - 32. In lengths, shingles,
 - 33. Wool.
- Copying—**
 - 63. Fluid-pressure,
 - 60. Hand-impressing,
 - 61. Hand-impressing, book-flexure.
 - 62. Roller mechanism.
- Expressing—**
 - Articles and attachments—
 - 50. Boxes and frames,
 - 51. Cake-formers,
 - 52. Cake-strippers,
 - 53. Cake-trimmers,
 - 54. Mats,
 - 35. Belt,
 - 36. Belt and plunger,
 - 37. Belt and roller,
 - 38. Disk,
 - Plunger—
 - 39. Cam,
 - 40. Crank and pitman,
 - 41. Lever,
 - 42. Rack-bar and pinion,
 - 43. Ratchet and grapple bar,
 - 44. Screw,
 - 45. Toggle-joint,
 - 46. Windlass,
 - 47. Roller,
 - 48. Screw,
 - 49. Without operating mechanism.
- Packing—**
 - Articles,
 - 55. Cheese,
 - 56. Continuous-compression,
 - 57. Single-compression.

101.—PRINTING.

- 1. Address printers—
- 2. Strip-form.
- 4. **Bed-and-cylinder machines—**
 - 153. Bed-and-cylinder movements,
 - 154. Multirevolution—
 - 6. Perfecting,
 - Oscillating-cylinder—
 - 7. Perfecting,
 - 8. Perfecting,
 - 155. Sliders,
 - 9. Stop-cylinder—
 - 10. Perfecting,
 - 11. Traveling-cylinder—
 - 12. Perfecting,
- 13. **Bed-and-platen machines—**
 - 14. Inking attachment,
 - 15. Oscillating—
 - 18. Roller and plate inker,
 - 16. Roller-inker—
 - 17. Orbital,
 - 19. Stationary roller-inker,
 - 21. Roller and plate inker,
 - 20. Roller-inker,
 - 22. Tympan-gages,
 - 23. Web.

101.—PRINTING—Continued.

- 24. Branding-stamps.
- 25. Chases.
- 27. Color-machines—
- 28. Graining.
- 26. Composing-sticks.
- 29. Deliveries—
- 30. Associators,
- 31. Droppers,
- 32. Fly-frames,
- 33. Gripper-fliers,
- 34. Receiving-tables.
- 36. Feeding—
- 37. Gages—
- 38. Front stops,
- 39. Separators—
- 40. Buckling,
- 41. Pneumatic.
- 43. Folders—
- 44. Longitudinal,
- 45. Longitudinal and rotary,
- 46. Newspaper-wrapping machines,
- 152. Oscillating,
- 47. Reciprocating,
- 48. Rotary,
- 49. Sheet-conveyers.
- 50. Furniture—
- 52. Tools and appliances.
- 53. Gaileys—
- 54. Galley-locks.
- 56. Hand-stamps—
- 57. Check-punches,
- 58. Head and handle—
- 59. Inking attachment,
- 60. Mutilators,
- 61. Roller—
- 62. Inking attachment,
- 63. Inking attachment,
- 64. Mutilators,
- 160. Settable-type carrier—
- 161. Inking attachment,
- 70. Tumbler.
- 181. Imitating.
- 71. Inking apparatus—
- 74. Fountains,
- 76. Rollers,
- 78. Traveling ductor-plate,
- 79. Traveling roller and plate.
- 80. Mail-marking machines—
- 206. Mail-box,
- 81. Rotary—
- 82. Machines and stackers.
- 83. Marking-machines—
- 84. Rotary.
- 85. Multicolor-machines—
- 86. Bed-and-cylinder—
- 87. Multiple-impression,
- 88. Bed-and-platen,
- 89. Rotary—
- 90. Multiple printing-couple,
- 91. Supplemental forms.
- 183. Numbering-machines—
- 184. Form attachments,
- 185. Hand,
- 186. Measurers and markers.
- 98. Planographic machines—
- 99. Bed-and-cylinder,
- 172. Copying apparatus,
- 180. Damping,
- 100. Rotary.
- 101. Plate.
- 102. Plate-machines—
- 103. Bed-and-cylinder,
- 104. Bed-and-platen,
- 105. Rotary,
- 106. Traveling-bed.
- 111. Printing-couple appliances—
- 112. Anti-offset device,
- 156. Friskets,
- 155. Grippers.
- 182. Processes.
- 118. Rotary machines—
- 119. Associators—
- 120. Stop-sheet,
- 120. Associators and folders,
- 122. Machines and associators,
- 123. Machines and deliveries,
- 125. Machines and folders,
- 124. Machines, associators and folders,
- 126. Non-perfecting,
- 127. Reversing and perfecting,
- 121. Rotary conical printing-couple.
- 128. Ruling feature.
- 130. Setting and distributing—
- 203. Distributing—
- 189. Feeler-selector,
- 190. Keyboard,
- 191. Type-arrangers,
- 192. Type-line separators,
- 193. Ward-selector,
- 194. Leading and unleading,

101.—PRINTING—Continued.

- Setting and distributing—Con.**
- 195. Setting—
- 196. Conveyor-feed,
- 197. Gravity-feed,
- 198. Hand-supply,
- 199. Justifiers,
- 200. Making and setting,
- 201. Type-channels.
- 179. Spaces and straight column-rules.
- 134. Stencil-plates.
- 132. Stenciling-machines.
- Surfaces—
- 163. Elastic,
- 164. Fountain,
- Holders—
- 167. Cylinder-mandrel,
- 169. Miscellaneous,
- 166. Mechanical transferring and registering,
- 159. Multicolor,
- Planographic—
- 173. Miscellaneous,
- Relief and intaglio—
- 177. Backs and blocks,
- 175. Combination,
- 174. Integral metal type,
- 178. Miscellaneous,
- 176. Non-elastic materials,
- 162. Tintographs.
- 187. Ticket-machines.
- 148. Traveling-bed machines.

102.—AMMUNITION AND EXPLOSIVE

- DEVICES.***
- 1. Miscellaneous.
- 2. Torpedoes—
- 3. Submarine mines,
- 4. Well.
- 5. Blasting—
- 6. Cartridges—
- 7. Electric,
- 8. Fuses—
- 9. Caps,
- 10. Electric,
- 11. Plugs.
- 20. Pyrotechnics—
- 21. Cartridges,
- 22. Fire-crackers,
- 23. Rockets,
- 24. Torches,
- 25. Toy torpedoes.
- 12. Cartridges—
- 13. Accelerating,
- 14. Practice,
- 15. Shot,
- 16. Shells—
- 17. Breech structure,
- 18. Primers—
- 19. Electric.
- 26. Projectiles—
- 27. Bomb-lances,
- 28. Capped or covered,
- 29. Shells—
- 30. High-explosive.
- 36. Fuses—
- 37. Combination,
- 38. Electric,
- 39. Percussion,
- 31. Lubricating,
- 32. Self-rotating,
- 33. Canister,
- 34. Line-carrying,
- 35. Oil-distributing,
- 40. Sabots—
- 41. Wedge-expanded,
- 42. Wads.
- 43. Primers.

103.—PUMPS.

- 45. Accumulators.
- 52. Air-suction chamber.
- 53. Assembling.
- 5. Cattle.
- 6. Chain.
- 50. Collapsible-tube.
- 54. Combined types.
- 8. Compressed-air water-elevators—
- 84. Aerated-column,
- 55. Hydraulic-compression.
- 10. Diaphragm.

* See Definitions of Revised Classes.

103.—PUMPS—Continued.

- 56. **Differential reciprocating pistons—**
- 57. **Hollow piston-rod.**
- 58. **Elements—**
- 59. Air and vacuum chambers,
- 60. Cut-off and drain devices,
- 61. Cylinders,
- 62. Miscellaneous and combined,
- 63. Operating devices,
- 64. Pistons,
- 65. Sand traps and strainers,
- 66. Stocks, curbs, and supports,
- 67. Valves.
- 68. **Fluid motive power—**
- 69. Fluid-transmitting,
- 70. Water-wheel.
- 71. **Hollow piston-rod—**
- 72. Double-acting—
- 73. One solid piston,
- 74. Multiple-cylinder.
- 75. **Oscillating-piston.**
- 76. **Railway-tank feeders.**
- 77. **Rams.**
- 78. **Regulators—**
- 79. Liquid-level—
- 80. Air-admitting,
- 81. Bucket-operated—
- 82. Float-controlled,
- 83. Curved rack—
- 84. Float-controlled,
- 85. Diaphragm-operated—
- 86. Float-controlled,
- 87. Overflow to motor,
- 88. Piston-operated—
- 89. Float-controlled,
- 90. Pump-check-valve con-
- 91. troller,
- 92. Reciprocating-rack—
- 93. Float-controlled,
- 94. Thermostatic,
- 95. Pressure—
- 96. Belt-shifter,
- 97. By-pass,
- 98. Throttle—
- 99. Multiple fluid-pressure—
- 100. Auxiliary-valve,
- 101. Single fluid-pressure—
- 102. Auxiliary-valve,
- 103. Speed,
- 104. Speed and pressure.
- 105. **Rotary double-piston.**
- 106. **Rotary single-piston.**
- 107. **Solid reciprocating piston—**
- 108. Double-acting,
- 109. Multiple-cylinder—
- 110. Double-acting.
- 111. **Systems.**
- 112. **Trap type.**
- 113. **Valved reciprocating piston—**
- 114. Multiple-cylinder,
- 115. Opposing pistons,
- 116. Successive pistons.
- 117. **Windlass water-elevator.**

104.—RAILWAYS.

- 154. **Balloon.**
- 223. **Car-feeders.**
- 1. **Car-replacers—**
- 161. Car-attached,
- 162. Hinged blocks,
- 163. Rigid blocks,
- 164. Shifting-jacks.
- 224. **Car-stops—**
- 225. Bumpers—
- 226. Counterweight,
- 227. Fluid-pressure,
- 228. Chocks—
- 229. Displaceable,
- 230. Rail-clamp,
- 231. Sliding,
- 232. Wheel-skids.
- 40. **Crossings—**
- 116. Movable-rail—
- 117. Stub.
- 3. **Deadening noise.**
- 4. **Elevated—**
- 131. Bicycle,
- 146. Cable-rail,
- 181. Suspended ways—
- 180. Switches.
- 165. **Endless-carrier.**
- 210. **Fixed point and car-actuated electric control.**
- 50. **Foot-guards.**
- 5. **Frogs—**
- 99. Movable-rail—
- 118. Lap,
- 119. Stub,
- 98. Spring-rail.

104.—RAILWAYS—Continued.

- 35. **Grippers—**
- 87. Automatic-release,
- 130. Coal-car,
- 88. Friction,
- 89. Friction-belt,
- 132. Overstepping,
- 90. Roller,
- 91. Sprocket-wheel,
- 92. Wheel-wheel.
- 7. **Hose-bridges—**
- 167. Overhead,
- 168. Under-rail.
- 8. **Inclined-plane—**
- 113. Traction.
- 133. **Logging.**
- 205. **Moving-train—**
- 111. Passenger-transfer.
- 179. **Pleasure-railways.**
- 177. **Pneumatic—**
- 61. Motor-charging.
- 95. **Sledways.**
- 115. **Switch-chairs.**
- 96. **Switch-pieces.**
- 25. **Switch-rods.**
- 12. **Switch-stands.**
- 23. **Switches—**
- 77. Automatic—
- 127. Safety,
- 155. Derailing,
- 198. Electric—
- 199. Controller-operated,
- 125. Electrofluid-pressure—
- 26. Car-controlled,
- 78. Lap,
- 152. Pneumatic,
- 79. Safety,
- 126. Slip,
- 24. Spring,
- 170. Stub,
- 171. Tramway—
- 172. Horse-treads,
- Point-throwers,
- Track-cams.
- 178. **Track—**
- 14. Highway,
- 45. Miscellaneous,
- 112. Portable—
- 65. Crossovers.
- 36. **Track-cleaners—**
- 37. Blade and broom,
- 38. Centrifugal,
- 56. Dumpers,
- 100. Elevators,
- 176. Explosive,
- 102. Flangers—
- 103. Rotary,
- 153. Vibrating,
- 51. Hot plows,
- 58. Oilers and washers,
- 66. Plows,
- 57. Removing weeds,
- 110. Snow-guards,
- 16. Stock-alarms.
- 217. **Track-curves.**
- 218. **Track-layers—**
- 222. Distributors,
- 219. Joint-welders,
- 220. Shuers,
- 221. Spike-drivers,
- 17. Tampers,
- 18. Tie-platers,
- 80. Track-raisers.
- 81. **Track-platforms.**
- 82. **Traction—**
- 83. Cable-shields,
- 207. Crossing conduits,
- 53. Crossing streams,
- 84. Curves,
- 85. Draft-cable,
- 86. Running and carrying rope,
- 87. Slot-clovers,
- 88. Slot-switches,
- 47. Take-ups,
- 48. Underground.
- 64. **Transfer-tables.**
- 19. **Truck-changers.**
- 214. **Turntables—**
- 212. Actuating mechanism,
- 216. Automobile,
- 211. Bearings and pivot,
- 215. Car-actuated,
- 213. Locks,
- 62. Portable.
- 208. **Yards and plants—**
- 209. Smoke-jacks,
- Vehicle-battery replacing.

105.—RAILWAY ROLLING-STOCK.

- 4. **Axes—**
- 258. Divided—
- 66. Fixed middle bearings,
- 67. With coupling,
- 68. Wheel-attaching devices,
- 69. With sleeved and fixed wheels.
- 69. **Bevel-ended—**
- 132. Non-telescoping.
- 73. **Car-movers—**
- 265. Flange or axle grip,
- 74. Traction-wheels.
- 14. **Cars—**
- 184. Automatic door-locks,
- 75. Dining,
- 186. Dumping—
- 185. Convertible flat and hopper bottom,
- 187. Hopper-bottom,
- 188. Inclined-bottom—
- 189. Side doors,
- 190. Inwardly-tilting sections,
- 191. Outwardly-tilting section,—
- 262. Displaceable sides,
- 75. Tilting-body—
- 76. Displaceable sides,
- 15. Express—
- 192. Burglar-proof.
- 77. Floor-frames,
- 78. Freight—
- 193. Frames,
- 79. Fruit,
- 194. Removable covers,
- 183. Removable side sections,
- 173. Rolling,
- 174. Running boards and rails,
- 195. Stakes—
- 16. Releasable,
- 196. Side-folding,
- 198. Steps and platforms,
- 80. Tank,
- 81. Hand—
- 19. Geared,
- 5. Merchandising,
- 199. Open street—
- 200. Seats,
- 82. Side guards
- 201. Passenger—
- 202. Baskets,
- 83. Double-deck,
- 84. Dust-guards,
- 204. Emergency-exits,
- 205. Frames,
- 85. Head-rests,
- 86. Individual safes,
- 87. Platform extensions—
- 88. With gates,
- 89. platforms,
- 90. Seat and door arrangement,
- 91. Steps—
- 92. Extension—
- 93. Folding,
- 94. Sliding,
- 95. With gate,
- 96. Safety-bridges,
- 97. Sleeping—
- 98. Berth-guards,
- 99. Berth-locks,
- 206. Compartment arrangement,
- 207. Convertible seat and berth,
- 208. Curtains and rods,
- 89. Hinged berths,
- 91. Ladders,
- 210. Partitions,
- 211. Seat-back and upper berth,
- 212. Suspended berths,
- 28. Steam street,
- 31. Street—
- 213. Awnings,
- 92. Convertible open and closed,
- 35. Hand-straps,
- 214. Reversible,
- 93. Storm-fronts,
- 61. Vestibule—
- 266. Curtain-releasers.
- 94. **Derailment-guards—**
- 215. Inclined wheels,
- 95. Rail-interlocking,
- 96. Supplemental wheels.
- 17. **Locomotives—**
- 217. Belt-gearing,
- 97. Drawbar-lifters,
- 259. Electric—
- 267. Battery,
- 218. Belt-gearing,
- 219. Friction-roller driven,
- 220. Geared,
- 221. Intermittent-grip,
- 222. Longitudinal gear-shafts,
- 223. Longitudinal worm-shafts,
- 224. Friction-roller driven,
- 225. Intermittent-grip,
- 227. Longitudinal shafts,

105.—RAILWAY ROLLING-STOCK—
Continued.**Locomotives—Continued.**

- 228. Rack-rail,
- 226. Swinging-bogie,
- 98. Telescoping pilots,
- 260. Tenders,
- 99. Traction-increasers—
- 175. Electric,
- 229. Gripping-drivers.
- Motors—**
- 102. Manually-operated,
- 101. Spring,
- 100. Tread-power.
- 60. **Sanding devices—**
- 176. Chain-feed,
- 263. Fluid-pressure,
- 177. Oscillatory-feed,
- Reciprocatory-feed—
- 178. Horizontal,
- 179. Vertical,
- 180. Rotary-feed.
- 233. **Single rail—**
- 234. Side guides—
- 235. Locomotives.
- 236. **Single top and bottom rail.**
- 181. **Sound-deadening devices.**
- 26. **Starters.**
- 27. **Starters and brakes.**
- 237. **Suspended.**
- Trains—**
- 238. Power-transmitters.
- 32. **Trucks—**
- 135. Antifriction-wheels,
- 103. Bolsters—
- 104. Cast,
- 105. Guides,
- 106. Pressed-steel,
- 107. Trussed,
- 257. Cable-grip,
- 108. Center bearings—
- 109. Pressed-steel,
- 11. Changeable-gage,
- Curve-adjusters—
- 136. Swiveled-wheel,
- Electric-motor—
- 239. Bogies,
- 240. Equalizing-levers,
- 241. Motor-supporters,
- 242. Rigid-frame,
- Four-wheel—
- 243. Bogies,
- Curve-adjusters—
- 137. Axles, radial,
- 138. Axles, sectional,
- 111. Frames—
- 112. Pressed-steel,
- 113. Pedestals,
- 114. Safety-supporters,
- 115. Side bearings,
- Six-wheel—
- 244. Bogies,
- Curve-adjusters—
- 139. Axles, radial,
- 245. Supplemental.
- 246. **Velocipedes—**
- 247. Bicycle attachments,
- 248. Geared.
- Wheel-bodies—**
- 140. Cast in tires,
- 141. Cast on hubs.
- 33. **Wheel-fenders—**
- 249. Car and truck equalizer,
- 250. Combined-brake,
- 251. Fixed-scoop,
- 252. Folding hinged-scoop,
- 268. Graspers,
- 253. Hinged-scoop,
- Inclined—
- 127. Tilt-up front,
- 128. Obstacle-projectors,
- 254. Pilot type,
- Rotary—
- 129. Positively-driven,
- 130. Trip and drop-scoop,
- 255. Trip and shoot forward,
- 256. Wheeled-scoop,
- 131. Wheel-tread.
- 182. **Wheel-tread surfaces—**
- 142. Form,
- 143. Multiple,
- 144. Peripheral rollers,
- 145. Recessed.
- Wheels—**
- 146. Bushings,
- Counterbalances,
- 148. Epleycle,
- Flanges—
- 149. Independent-movement,
- Integral—
- 150. Cast—
- 151. Hollow webs,

105.—RAILWAY ROLLING-STOCK—
Continued.**Wheels—Continued.**

- 153. Spokes—
- 154. Cast-in,
- 155. Metallic—
- 154. Detachable,
- 155. Wooden,
- 156. Tire-fasteners—
- 158. Bolted lap-flanges,
- 157. By casting,
- 159. Integral hugs,
- 160. Transverse intermediate keys,
- Tires—
- Cushioned—
- 161. Metallic springs,
- 162. Rubber,
- 163. Wooden blocks,
- 164. Loose,
- 165. Non-metallic,
- Webs—
- 167. Sheet-metal disks—
- 168. Non-metallic filling,
- 169. Single,
- Split castings—
- 170. Detachable tires,
- 171. Wooden,
- Webs and tires—
- 172. Pressed-steel.

106.—PLASTIC COMPOSITIONS.*

- 1. Miscellaneous.
- 1.5. Sound-record.
- 1.6. Type or matrix.
- 2. Battery-jars.
- 3. Boot heels and soles.
- 4. Cob pipes and fillings.
- 5. Crayons and pencils.
- 5.5. Inking-roller type.
- 6. Dental.
- 7. Floor-cloth.
- 7.5. Tractive-surface type.
- 8. Luting.
- 9. Fire-brick and refractory linings—
- 10. Argillaceous.
- 11. Fire-hardened.
- 12. Electrical insulating—
- 13. Rubber,
- 14. Soluble silicates,
- 15. Bituminous and resinous—
- 16. Tar,
- 17. Wax.
- 18. Heat-insulating—
- 19. Soluble silicates,
- 20. Plaster-of-Paris,
- 21. Argillaceous.
- 22. Artificial ivory and hard rubber.
- 23. Artificial rubber.
- 24. Artificial stone—
- 25. Hydraulic cement—
- 25.5. Slag,
- 26. Argillaceous,
- 27. Indurating,
- 28. Retarders,
- 29. Oxychlorid and oxysulfate,
- 30. Soluble silicates,
- 31. Bituminous and resinous—
- 32. Tar,
- 33. Wax,
- 34. Plaster of Paris,
- 35. Argillaceous,
- 36. Gelatinous and gummy.
- 36.1. Glass—
- 36.2. Enamel,
- 36.3. Slag.
- 37. Pyroxylin.
- 38. Protoids.
- 39. Gelatinous and gummy.
- 40. Viscose and cellulose.

107.—BREAD, PASTRY, AND CONFECTION MAKING.*

- 1. Composite cake and confection apparatus.
- 2. Shredded-cereal-biscuit apparatus.
- 3. Starch-molding apparatus.
- 4. Combined machines—
- 5. Printing and cutting lozenges,
- 6. Cutting and distributing.
- 7. Miscellaneous.
- 8. Molding apparatus—
- 9. Loaf-forming,
- 10. Rolling—
- 11. Pills,
- 12. Sheetting,
- 13. Axial,
- 14. Die-expressing,
- 15. Presses—
- 16. Popcorn,
- 17. Tablet—
- 18. Stationary-mold,
- 19. Molds.
- 20. Cutting apparatus—
- 21. Knife—
- 22. Circular,
- 23. Rotary-die,
- 24. Reciprocating-die—
- 25. Dough-feeding,
- 26. Internal-plunger.
- 27. **Depositing apparatus—**
- 28. Valve cut-off—
- 29. Transversely-reciprocating.
- 30. Mixers, kneaders, and beaters—
- 31. Aerating,
- 32. Moving-receptacle—
- 33. Rotating,
- 34. Roller,
- Rotary-dasher—
- 35. Compound-rotation,
- 36. Multiple—
- 37. Hand-supported,
- 38. Single—
- 39. Oscillating,
- 40. Horizontal,
- 41. Hand-supported,
- 42. Single reciprocating-dasher.
- 43. Sizing and salting apparatus.
- 44. Cleaning apparatus.
- 45. Stacking and packing apparatus.
- 46. Pastry-boards.
- 47. Implements—
- 48. Ice-cream dishers,
- 49. Pie crimpers and trimmers,
- 50. Rolling-pins,
- 51. Cutters,
- 52. Depositors,
- 53. Mixers, kneaders, and beaters,
- 54. **Processes.**
- 55. **Bakers' ovens—**
- 56. Charging and removing devices—
- 57. Endless-carrier—
- 58. Automatic pans or forms,
- 59. Reel,
- 60. Rotary-hearth,
- 61. Wagon-ovens,
- 62. Knockdown or separable,
- 63. Fluid-circuit or indirect heating,
- 64. Attachments,
- 65. Doors,
- 66. Forming and baking plates,
- 67. Baker's peel.

108.—ROOFS.*

- 1. Miscellaneous.
- 4. Observatory-domes.
- 5. Car—
- 5.1. Monitor,
- 5.2. Lined—
- 5.3. Metal lining,
- 5.4. Metal,
- 5.5. Frames—
- 5.6. Carlines,
- 5.7. Carline-brackets,
- 5.8. Flashings,
- 5.9. Clips.
- 16. Skylights—
- 31. Operating devices.
- 2. Adjustable.
- 3. Portable.
- 32. Pyramidal.
- 6. Composite—
- 6.5. Fireproof.

* See Definitions of Revised Classes.

108.—ROOFS—Continued.

7. **Fabric.**
8. **Slate and shingle—**
9. Laying.
10. **Tile.**
11. **Thatch.**
12. **Lap-joint.**
13. **Metallic—**
14. Miscellaneous,
15. Shingle,
16. Rib-seam—
17. Capped,
18. Standing-seam—
19. Capped,
20. Interlocking lap-seam.
21. **Trusses.**
22. **Ridges.**
23. **Valleys.**
24. **Flashings.**
25. **Fenders.**
26. **Eaves-troughs—**
27. Hangers,
28. Strainers.

109.—SAFES.

1. **Burglar-proof.**
2. **Circular-door.**
3. **Express.**
4. **Fireproof.**
5. **Gas and explosives.**
6. **Pressure mechanism.**
7. **Safe bolt-work—**
8. Automatic.
9. **Safe-filling.**
10. **Safety-deposit.**
11. **Safety-deposit boxes.**
12. **Water and air.**

110.—FURNACES.*

1. **Furnace structure—**
2. Automobile,
3. Cremation,
- 3.5. Forge—
4. Straw burners and feeders—
5. Fire-box, exterior, detachable—
6. **Wet-fuel—**
7. Garbage and sewage—
8. Dry closets,
9. Steam-boiler,
10. Closed-retort,
11. Reverberatory-platform,
12. Rotary-grate, vertical axis,
13. Rotary-retort,
14. Drying-conveyer,
15. Underfeed.
16. **Fuel-support above grate,**
17. **Refuse—**
18. Brush, portable,
19. Stubble,
20. Stump,
21. Gas or oil and solid-fuel,
22. Multiple-series,
23. Coking—
24. Gas passing under grate,
25. **Double fire-box—**
26. Alternate smoke-return—
27. Over fire,
28. Under fire,
29. Fine fuel burned in suspension,
30. Magazine—
31. Cage-grate,
32. Gas-producer,
33. Progressive-feed—
34. **Grate—**
35. Boiler-controlled,
36. Rotary—
37. Horizontal-axis,
38. Vertical-axis,
39. Raking-bar,
40. Reciprocating-bar,
41. Rocking-bar,
42. Chain—
43. Multiple-fuel,
44. Locomotive,
45. Bridge-wall feed,
46. Underfeed—
47. Center-feed—
48. Continuous,
49. Separate charges,
50. Progressive-feed grate—
51. Double,
52. Single,

110.—FURNACES—Continued.

53. **Furnace structure—Continued.**
54. Smoke and gas return—
55. Locomotive,
56. Before passing boiler-flues—
57. From fire-box,
58. Feeding air and steam—
59. Boiler-controlled,
60. Time-limit,
61. Heaters—
62. Locomotive,
63. Meeting furnace-gases,
64. Horizontal-base,
65. Fire-box—
66. Locomotive,
67. Superimposed—
68. Intermediate-draft,
69. Interstitial-outlet,
70. Drop-arch,
71. Door and bridge-wall arch,
72. Door-arch,
73. Bridge-wall arch,
74. Undergrate—
75. Locomotive,
76. Deflectors,
77. Feeding air—
78. Horizontal-base,
79. Hollow-grate,
80. Fire-box—
81. Locomotive,
82. Double,
83. Feeding steam and water—
84. Undergrate,
85. Feeding steam—
86. Fire-box,
87. Feeding water,
88. Horizontal cylindrical boiler,
89. Horizontal-base,
90. Reversible-draft,
91. Downdraft,
92. Grateless,
93. Fire-box—
94. Locomotive,
95. Exterior, detachable,
96. Adjustable,
97. Superimposed—
98. Intermediate-draft,
99. Interstitial-outlet,
100. Drop-arch,
101. Door and bridge-wall arch,
102. Door-arch,
103. Bridge-wall arch,
104. Baffles and heat-retainers—
105. Water-tube boilers,
106. Arches,
107. By-pass flue,
108. **Fuel-feeders—**
109. Shavings and sawdust,
110. Boiler-controlled,
111. Blower—
112. Hopper,
113. Pulverizer,
114. Bridge-wall,
115. Hopper—
116. Pusher—
117. Reciprocating,
118. Screw,
119. Spreader—
120. Carrier—
121. Door,
122. Oscillating,
123. Reciprocating-plunger,
124. Rotary,
125. Chute—
126. Door—
127. Multiple-charge,
128. Vertical-draft.
129. **Spark-arresters—**
130. Furnace-conductor,
131. Combined stack and smoke-box,
132. Smoke-box—
133. Draft-regulator,
134. Divided,
135. Hood,
136. Vertical-drum,
137. Ejector,
138. Water-receptacle,
139. Discharge-valve,
140. Stack—
141. Feeding air,
142. Return-current,
143. Annular-receptacle—
144. Conductor,
145. Central-discharge downward,
146. Central-discharge upward,
147. Rotary-baffle,
148. Spiral-baffle, stationary—
149. Separator,
150. Tangential-separator,
151. Heads, symmetrical,
152. Steam or water spray,
153. Water-receptacle,
154. Water-receptacle.

110.—FURNACES—Continued.

145. **Spark and smoke conductors—**
146. Train.
147. **Draft-regulators—**
148. Separation of gases,
149. External exhaust and blower,
150. Steam-injector,
151. Exhaust-nozzle—
152. Variable-discharge—
153. Boiler-controlled,
154. Exhaust-controlled,
155. Air-feed,
156. Shunt-pipe,
157. Smoke-box—
158. Feeding air—
159. Door-operated,
160. Stack—
161. Portable,
162. Air-jet—
163. Steam injected,
164. Fan-exhaust,
165. Damper,
166. Lift-pipe,
167. **Ash receiving and handling devices—**
168. Ash-pans—
169. Dumping—
170. Conjoined floor-sections,
171. Reciprocating discharge-valve,
172. Scraper,
173. Steam and water attachments.
174. **Fronts.**
175. **Doors—**
176. Feeding air and steam,
177. Feeding air,
178. Operators—
179. Motor,
180. Pedal,
181. Fluid-screens.
182. **Doors and casings—**
183. Cooling.
184. **Door casings and arches—**
185. Feeding air.
186. **Twyers—**
187. Forge.
188. **Smoke-purifiers.**
189. **Smoke-stacks.**

111.—SEEDERS AND PLANTERS.

1. **Broadcast—**
2. Centrifugal scatterers,
3. Hand—
4. Centrifugal scatterers,
5. Revolving hoppers,
6. Walking.
7. **Check-row—**
8. Anchors,
9. Endless belts,
10. Knots,
11. Reels,
12. Wire-doffers.
13. **Cups on belt.**
14. **Cups on disk.**
15. **Drill-teeth.**
16. **Drills—**
17. Adjustable-rank,
18. Grain,
19. Walking.
20. **Drills and broadcast combined.**
21. **Elastic feed-wheels.**
22. **Fertilizer-distributors—**
23. Feeding-belts,
24. Hand,
25. Revolving hoppers,
26. Walking.
27. **Force-feed.**
28. **Grain-drill cleaners.**
29. **Land-markers—**
30. Liquid and powder.
31. **Pivoted seed-cups.**
32. **Planters—**
33. Corn,
34. Cotton,
35. Foot,
36. Hand—
37. Oscillating,
38. Reciprocating,
39. Rotating,
40. Potato—
41. Walking,
42. Vibrating hoppers.
43. **Plungers.**
44. **Rolling hoppers.**
45. **Screw-feed.**

* See Definitions of Revised Classes.

112.—SEWING-MACHINES.

35. Attachment-holders.
1. Binders.
41. Book-sewing.
3. Braiders and corders.
43. Broom-sewing.
4. Buttonhole.
5. Chain and double chain.
7. Embroidering.
8. Feeding.
36. Glove-sewing machines.
9. Guides.
10. Hemmers.
34. Methods.
29. Miscellaneous parts.
37. Needle-clamps.
11. Needles.
13. Presser-feet and lifters.
14. Quilting.
15. Revolving-hook machines.
38. Revolving hooks.
16. Rufflers and gatherers.
17. Running-stitch.
18. Setters and threaders.
31. Sewing hats.
19. Sewing looped fabrics.
42. Sewing on buttons.
32. Sewing rugs.
20. Sewing shoes.
21. Short-thread.
22. Shuttle-machines.
23. Shuttles and bobbins.
24. Special machines.
25. Straw.
26. Take-ups.
39. Tensions.
33. Thread-cutters.
6. Trimmers.
27. Tuck creasers and markers.
12. Tucking-guides.
40. Turfing fabrics.
28. Wax-thread.

**113.—SHEET-METAL WARE—MAK-
ING.***

1. Miscellaneous.
2. Bottle-capping—
3. Die—
4. Fillers and forcers,
5. Sectional,
6. Rotary-tool,
7. Strap-compressor.
8. Can-making machines—
- Body-forming and side-seam-
ing—
9. Soldering—
- Blank-feeding,
10. Blank-feeding,
11. Side-seaming,
12. Head-seaming—
13. Soldering,
14. Feeding and applying,
15. Rip-seam making,
16. Die—
17. Axial rolling,
18. Sectional,
19. Roller—
- Rotary-chuck—
20. Pattern-controlled tool—
21. Automatic-clutch,
22. Laterally-rocking tool-
holder,
23. Stationary seaming-tool,
- Stationary-chuck—
- Rotary seaming-tool—
24. External,
25. Internal,
- Head feeding and applying—
- Body-feeding—
26. Chute,
27. Endless-chain carrier,
28. Rotary-drum carrier,
29. Rotary-table carrier,
30. Head-applying—
31. Sectional-guide.
32. Pens and penholders.
33. Tube-making—
34. Side-seam compressing,
35. Spiral-seaming,
- Transverse-seaming—
36. Die,
37. Roller.
38. Die-shaping—
39. Deutal,
40. Eyelets,
- 40.5. Lacing-studs,
41. Rolling hollow bodies,

**113.—SHEET-METAL WARE—MAK-
ING—Continued.**

- Die-shaping—Continued.
42. Cutting—
- 42.5. Shoe-shank stiffeners,
43. Combined machines,
44. Fillers and forcers,
45. Fluid-operated,
46. Drawing,
47. Roller and concave,
48. Expanding-die,
49. Dies and die-holders,
50. Ejectors,
51. Processes.
52. Spinning—
53. Carriage-feed, pattern-con-
trolled.
- Seaming-machines—
54. Compressing and folding—
55. Roofers' carriages,
56. Roofers' tongs,
- Compressing—
57. Die,
58. Roller.
59. Soldering—
- Cans—
60. Side-seam—
- Endless-chain carrier—
61. Bath,
62. Soldering-iron,
63. Reciprocating-carrier,
- Rotary-table carrier—
64. Bath,
65. Flame,
- Soldering-iron,
66. Head-seam—
67. Axial rolling,
68. Rotary-chuck—
69. Bath,
70. Flame,
71. Soldering-iron,
- Endless-chain carrier—
72. Bath,
73. Flame,
74. Soldering-iron,
- Rotary-table carrier—
75. Bath,
76. Flame,
77. Soldering-iron,
78. Bath,
79. Flame,
80. Cap-preparing, solder-affix-
ing, and gasket-applying,
81. Cap—
82. Hermetic,
83. Rotary-chuck—
- Flame, endless-chain
carrier,
84. Stationary-tool—
85. Endless-chain carrier,
86. Rotary-table carrier,
87. Rotary-tool—
88. Endless-chain carrier,
89. Rotary-table carrier,
90. Shifting-tray,
91. Tipping,
92. Heat and pressure,
- Solder-feeders—
93. Liquid,
94. Solid,
- Flux-feeders—
95. Liquid,
96. Solid,
97. Wipers,
98. Coolers,
99. Clamps—
100. Vessel,
101. Trough,
102. Pipe,
103. Expanding-mandrel,
104. Adjustable arms,
105. Irons—
- Capping—
106. Heaters—
107. Electric,
108. Solder-feeding,
109. Solder-forms,
110. Tools and appliances,
111. Processes.
112. Work-feeders—
113. Cap and head,
114. Can-body.
115. Processes.
116. Processes.

114.—SHIPS.*

- 0.5. Miscellaneous.
1. War-ships—
2. Rams—
3. Battering,
4. Floating batteries,
5. Turret—
6. Combined elevating and ro-
tary,
7. Elevating,
8. Rotary,
9. Armored—
10. Deflectors,
11. Belling and plating—
12. Compound—
13. Buffers,
14. Screens and shields,
15. Concealment.
16. Submarine vessels—
17. Torpedo-boats,
- Life and vessel saving devices—
- 16.5. Buoy,
- 16.6. Escapes—
- 16.7. Boats or buoys,
- 16.8. Salvage.
18. Torpedo-boats—
19. Spar.
20. Torpedoes—
21. External-control,
22. Separable sections,
23. Steering mechanism—
24. Gyroscope,
25. Depth regulation.
- Scows—
26. Dumping and unloading—
27. Sectional—
28. Hinged,
29. Separable,
30. Platform—
31. Tilting—
32. Carriers,
33. Conveyers,
34. Side doors,
35. Bottom doors—
36. Flooding-gates,
37. Turnover.
38. Sail-boats.
39. Ice-breakers—
40. Rams,
41. Cutters.
42. Ice-boats.
43. Vessel raising and docking—
44. Floating dry-docks—
45. Sectional,
46. End-gates,
47. Elevators,
48. Camels, caissons, and pontoons,
49. Submerged—
50. Hoisting,
51. Air-tanks—
52. Camels, caissons, and pon-
toons,
53. Inflatable bags,
54. Sand and mud loosening.
55. Form—
56. Screw-propeller type,
57. Paddle-wheels,
58. Spindle,
59. Canal and ferry boats,
60. Divided-hull,
61. Concave-bottom,
62. Flat-bottom.
63. Building—
64. Observation-boats,
65. Hydroplane-boats,
- 66.5. Antifriction-surfaces,
67. Insubmergible vessels—
68. Linings and fillings,
69. Canal and ferry boats,
70. Cabins,
71. Freighters—
72. Bulk-cargo—
73. Liquid,
74. Antishifting devices,
75. Ceilings and floors,
76. Sectional,
77. Bulkhead and compartment,
78. Iron—
79. Corrugated,
80. Tubular,
81. Wood,
82. Bracing and staying,
83. Sheathing and planking,
84. Decks,
85. Calking and seaming,
86. Knees,
87. Joints.
88. Spars—
89. Masts and masting—
90. Swinging,
91. Cross and trestle trees,
92. Coats, shields, and steps,
93. Heads and irons,
- 94.

* See Definitions of Revised Classes.

114.—SHIPS—Continued.

Spars—Continued.

- 95. Yards—
- 96. Trusses and parrels,
- 97. Gaffs, booms, etc.—
- 98. Pivoted,
- 99. Crotches and supports,
- 100. Spar-irons,
- 101. Fair-leadors and chocks.
- 102. **Sails and rigging—**
- 103. Sails—
- 104. Reefing and furling—
- 105. Fore-and-aft sails—
- 106. Rolling,
- 107. Rolling,
- 108. Fastening devices,
- 109. Rigging screws and stretchers—
- 110. Tension-relievers,
- 111. Running rigging,
- 112. Mast-travelers,
- 113. Hoops and connections,
- 114. Cringles and hanks,
- 115. Clews and thimbles.
- 116. **Bulkheads and doors—**
- 117. Doors—
- 118. Automatic—
- 119. Sliding,
- 120. Sliding,
- 121. **Ballasting—**
- 122. Antirolling,
- 123. Floats,
- 124. Shifting weights,
- 125. Water-tanks,
- 126. Fins and boards.
- 127. **Centerboards—**
- 128. Steering,
- 129. Multiple,
- 130. Vertical-drop and pivoted-swing—
- 131. Sectional,
- 132. Pivoted—
- 133. Sectional—
- 134. Fan,
- 135. Lateral,
- 136. Lateral-swing,
- 137. Lateral-tilt,
- 138. Vertical-drop—
- 139. Sectional.
- 140. **Keels—**
- 141. Vertical adjustment,
- 142. Bilge,
- 143. Rocking.
- 144. **Steering mechanism—**
- 145. Speed-retarders,
- 146. Auxiliary,
- 147. Paddles and wheels—
- 148. Channels,
- 149. Keel,
- 150. Fluid-pressure—
- 151. Jet,
- 152. Fins,
- 153. Foot,
- 154. Wheel-shaft gearing—
- 155. Screw—
- 156. Intermediate-gear,
- 157. Right and left—
- 158. Intermediate-gear,
- 159. Segmental-rack,
- 160. Wheel and drum—
- 161. Intermediate-gear,
- 162. Rudders—
- 163. Multiple,
- 164. Auxiliary,
- 165. Hanging and shipping,
- 166. Tubular,
- 167. Sectional,
- 168. Jury,
- 169. Post bearings and heads,
- 170. Brakes—
- 171. Hydraulic,
- 172. Locks.
- 173. **Ports—**
- 174. Stoppers—
- 175. Gun-port,
- 176. Hinged,
- 177. Light and air—
- 178. Hinged covers.
- 179. **Hawse-pipes—**
- 180. Stoppers and covers,
- 181. Friction-rollers.
- 182. **Scuppers.**
- 183. **Bilge-discharge—**
- 184. Ejectors—
- 185. Ship's-motion,
- 186. Ash.
- 187. **Smoke-stacks.**
- 188. **Furniture—**
- 189. Cabins and state-rooms,
- 190. Life-preserver racks,
- 191. Self-leveling—
- 192. Berths—
- 193. Single-pivot,

114.—SHIPS—Continued.

Furniture—Continued.

- Self-leveling—Continued.
- 194. Chairs,
- 195. Tables.
- 196. **Valves—**
- 197. Boat-plugs,
- 198. Sea-cocks.
- 199. **Cable-stoppers—**
- 200. Chain.
- 201. **Hatches and covers—**
- 202. Sliding,
- 203. Fasteners.
- 204. **Travelers—**
- 205. Tension-relievers.
- 206. **Anchors—**
- 207. Fluke—
- 208. Pivoted,
- 209. Drags or sea-anchors.
- 210. **Anchor-trippers.**
- 211. **Ventilation—**
- 212. Valves.
- 213. **Tension-relievers—**
- 214. Fluid,
- 215. Cable,
- 216. Couplers—
- 217. Safety-release.
- 218. **Bits, cleats, and pin-rails.**
- 219. **Fenders—**
- 220. Roller.
- 221. **Implements—**
- 222. Hull-cleaning,
- 223. Rigging,
- 224. Calking, paying, etc.,
- 225. Spikes, pins, and fids,
- 226. Clamps.
- 227. **Leak-stoppers—**
- 228. Interior,
- 229. Aprons, mats, etc.
- 230. **Mooring devices—**
- 231. Ferry-slip.
- 232. **Oil-distributors—**
- 233. Ship structure,
- 234. Drags and floats.
- 235. **Towing—**
- 236. Steering mechanism—
- 237. Indicators.
- 238. **Torpedo-launching—**
- 239. Outboard.
- 240. **Torpedo-guards—**
- 241. Nets.

115.—MARINE PROPULSION.*

- 0.5. **Miscellaneous.**
- 1. **Land and water boats —**
- 2. Pedomotors.
- 3. **Wind-motors.**
- 4. **Wave propulsion—**
- 5. Oscillating-weight.
- 6. **Towing—**
- 7. Cable systems,
- 8. Track systems,
- 9. Ground wheels or polers.
- 11. **Jet—**
- 12. Steering,
- 13. Explosive,
- 14. Hydraulic—
- 15. Pneumatic-drive,
- 16. Wheel-drive.
- 16. **Buoyant propeller—**
- 20. Rotary-hull.
- 21. **Manual-power—**
- 22. Catamaran,
- 23. Paddle-wheel,
- 24. Screw.
- 25. **Marine pedomotors—**
- 26. Catamaran,
- 27. Bicycle-propelled.
- 34. **Screw-propeller—**
- 35. Steering,
- 37. Multiple-screw—
- 38. Side,
- 39. Channel or way,
- 40. Self-clearing,
- 41. Depth regulation,
- 42. Casing or shield,
- 43. Propeller-shaft brakes.
- 49. **Paddle-wheel—**
- 50. Steering,
- 52. Horizontal or inclined,
- 53. Channel or way,
- 54. Depth regulation.
- 63. **Chain-propeller—**
- 64. Steering and adjustable.
- 66. **Crank-paddle—**
- 67. Steering and adjustable.
- 17. **Portable propellers—**
- 18. Steering.

115.—MARINE PROPULSION—Contd.

- 28. **Oscillating propellers—**
- 29. Steering,
- 30. Reversing.
- 31. **Reciprocating propellers—**
- 32. Steering,
- 33. Reversing.

116.—SIGNALS.

- 1. **Alarms—**
- 53. Bicycle,
- 41. Burglar—
- 42. Combined,
- 44. Detonating,
- 11. Ringing,
- 15. Fire,
- 58. Leak,
- 23. Poison-indicators,
- 59. Shoal,
- 32. Steam-whistles.
- 38. **Annunciators.**
- 39. **Bell-hanging—**
- 40. Pulls,
- 33. Ringing.
- 55. **Bells—**
- 56. Bicycle—
- 34. Wheel-actuated,
- 35. Call,
- 37. Door,
- 63. Sleigh.
- 64. **Elevator—**
- 62. Position-indicators.
- 31. **Flagstuffs.**
- 45. **Indicators—**
- 60. Barbers' turns,
- 47. Medicine-dose,
- 48. Office,
- 49. Peg,
- 50. Rotary,
- 52. Sliding,
- 61. Station.
- 62. **Locks—**
- 22. Alarm—
- 9. Detonating.
- 13. **Semaphores.**
- 18. **Signals—**
- 19. Car,
- 18. Fog,
- 19. Nautical,
- 65. Pneumatic.
- Speed-controlled.

117.—SILK.

- 1. **Assorting.**
- 4. **Doubling.**
- 5. **Silk.**
- 6. **Stretching.**
- 7. **Throwing.**
- 8. **Winding.**

118.—SPINNING.*

- 1. **Miscellaneous.**
- 2. **Domestic.**
- 3. **Stopping—**
- 4. Electric,
- 5. Traverse-controlled,
- 6. Spinning-couple—
- 7. With feed-stop,
- 8. Driving mechanism.
- 9. **Strand guarding and guiding—**
- 10. Catching and holding,
- 11. Separators,
- 12. Thread-boards—
- 13. Spinning-spindle tip,
- 14. Lifting,
- 15. Traversing.
- 16. **Doffing or doanng—**
- 17. Spinning-couples,
- 18. Mechanical.
- 19. **Clearing—**
- 20. Traveler.
- 21. **Intermittent—**
- 22. Mules—
- 23. Spindle-drive control—
- 24. Quadrant—
- 25. Faller-controlled,
- 26. Nosing attachment,
- 27. Faller-control—
- 28. Copping-rail,
- 29. Feed-control,
- 30. Carriages.

* See Definitions of Revised Classes.

118.—SPINNING—Continued.

31. Continuous—
32. Regulation—
33. Fly-frame,
34. Drag,
35. Delivery-twist,
36. Curling,
37. With carding,
38. With drawing or feeding—
39. Twisting-head,
40. Driving—
41. Traversing,
42. Speed-adjusting,
43. Electric,
44. Turbine,
45. Gear—
46. Friction,
47. Band—
48. Tensioning.
49. Spinning-couples—
50. Spindle-tip type,
51. Flier type—
52. Traversing yarn-guide—
53. Geared,
54. Traversing,
55. Drag.
56. Spinning elements—
57. Fliers—
58. Capstan,
59. Rings and travelers—
60. Rotating rings,
61. Travelers,
62. Caps.
63. Receiving elements—
64. Yarn-holding,
65. Spindle-retaining,
66. Whirl-driven.
67. Rails—
68. Ring.
69. Processes.

119.—ANIMAL HUSBANDRY.*

1. Miscellaneous.
- Special culture—
2. Aquatic—
3. Crustacean,
4. Fish,
5. Mollusk,
6. Aquariums,
7. Silkworm.
8. Brooders and incubators.
9. Brooders—
10. Central-heater,
11. Lateral-heater,
12. Fireless.
13. Incubators—
14. Contact,
15. Electrical,
16. Hot-air—
17. Lateral-heater,
18. Hot-water—
19. Lateral-heater,
20. Fireless,
21. Trays—
22. Egg-turners.
23. Nests and nest appliances—
24. Medicated nest-eggs,
25. Trap-nests—
26. Combined,
27. Egg,
28. Fowl—
29. Fowl-released.
30. Stock-cars—
31. Convertible,
32. Vestibule,
33. Decks,
34. Feeding and watering devices,
35. Partitions—
36. Poultry,
37. Safeguards.
38. Confining and housing devices—
39. Course,
40. Fowl—
41. Appliances,
42. Bird-houses,
43. Perches—
44. Antivermin,
45. Bird,
46. Barns and sheds,
47. Cages—
48. Food and water holders,
49. Coops and kennels,
50. Pens and racks,
51. Stalls—
52. Floors.

119.—ANIMAL HUSBANDRY—Contd.

53. Feeding devices—
54. Poultry-exercising,
55. Suckling appliances,
56. Hoppers and troughs—
57. Adjustable-supply,
58. Animal-controlled supply—
59. Platform,
60. Charge-delivering,
61. Movable trough-controlled supply,
62. Racks and troughs—
63. Animal-excluding,
64. Racks,
65. Troughs—
66. Animal-opened,
67. Animal-excluding,
68. Antieribbing,
69. Feed-bags—
70. Halter-supported,
71. Harness-supported,
72. Pole-supported,
73. Standard-supported.
74. Watering devices—
75. Temperature-controlled,
76. Fountains and troughs—
77. Animal-controlled supply—
78. Platform,
79. Barometric,
80. Float-controlled supply—
81. Oscillating-valve,
82. Reciprocating-valve,
83. Movable trough-controlled supply.
84. Grooming devices—
85. Combined,
86. Pneumatic,
87. Currycombs—
88. Dust and vermin trap,
89. Self-cleaning,
90. Curved and reticulated wire,
91. Plain-bar,
92. Rotary,
93. Serrated-bar,
94. Spike-toothed,
95. Handles.
96. Breaking and training devices.
97. Restraining devices—
98. Poultry,
99. Stocks—
100. Combined crates and neck-stocks,
101. Combined slings and hoppers,
102. Harness,
103. Slings,
104. Tables and trays,
105. Blinders,
106. Cow-tail holders,
107. Collars,
108. Drags and weights,
109. Hampering-pads,
110. Hitching—
111. Releasers—
112. With lead-line,
113. With sprayer,
114. Electro,
115. Halter-shap,
116. Reciprocating-bar,
117. Rotatable-shaft,
118. Rotary-arm,
119. Ties—
120. Movable,
121. Traveler,
122. Picket-stakes,
123. Posts—
124. Automatic take-up,
125. Disappearing,
126. Attachments,
127. Hopples—
128. Fetter-bars,
129. Shackles,
130. Mouth-guards—
131. Weaning-bits,
132. Muzzles—
133. Baffles—
134. Nostril-attached,
135. Cage-form,
136. Nose rings and clips,
137. Pokes—
138. Bar and belt,
139. Bar and bow—
140. Jointed-bow,
141. Pivoted-bar,
142. Bar and halter,
143. Face-guards,
144. Shields—
145. Horn,
146. Stallion,
147. Udder,
148. Stanchions—
149. Multiple,
150. Rotatable—
151. Stop-lock,

119.—ANIMAL HUSBANDRY—Contd.

152. Restraining devices—Contd.
153. Catching and holding tools—
154. Crooks,
155. Loops,
156. Tonges.
157. Stock-sorters.
158. Gangways.
159. Manure-pouches.
160. Antivermin treatment—
161. Daubing and rubbing,
162. Dipping and washing,
163. Dusting and spraying,
164. Fumigating.

120.—STATIONERY.*

1. Combination devices—
2. Blotters and rulers,
3. Inkstands and calendars,
4. Inkstands and pen-racks—
5. Self-opening,
6. Moisteners and sealers,
7. Pencil-sharpeners and erasers.
8. Miscellaneous.
9. Scholars' companions.
10. Pen and pencil cases—
11. Magic,
12. Compound—
13. Automatic,
14. Screw-and-slide,
15. Clutch—
16. Automatic,
17. Automatic catch,
18. Chalk-holders,
19. Polypointed,
20. Sharpening,
21. Step-by-step,
22. Screw,
23. Slide.
24. Blotters—
25. Hand-attached,
26. Rotary,
27. Supports.
28. Copy-holders—
29. Movable-copy—
30. Roller-feed—
31. Positive-grip,
32. Step-by-step movement,
33. Movable-marker—
34. Step-by-step movement.
35. Envelop-openers.
36. Stamp-scarifiers.
37. Erasers—
38. Combination,
39. Pencil attachments,
40. Knife,
41. Rubber.
42. Erasing-shields.
43. Fountain-pens—
44. Special-use—
45. Perforating,
46. Stylographic—
47. Spring-actuated spindle,
48. Force-feed and filler—
49. Piston,
50. Valved,
51. Retractable pen-section,
52. Feeders—
53. Modified-nib,
54. Modified pen-section.
55. Hand and arm rests—
56. Traveling,
57. Book-supported,
58. Adjustable-height.
59. Inkstands—
60. Desk-attached,
61. Barometer,
62. Fountain—
63. Automatic,
64. Gravity-feed,
65. Movable dip-cup,
66. Self opening and closing,
67. Self-closing,
68. Supplementary-reservoir,
69. Tilting-reservoir,
70. Dip-gages,
71. Opening and closing devices,
72. Supports.
73. Letter-sheets and postal cards.
74. Paper-weights.
75. Pencils—
76. Attachments.

* See Definitions of Revised Classes.

120.—STATIONERY—Continued.

- Pencil-sharpeners—
- 85. Implements—
- 86. Compound—
- 87. Reciprocatory-movement,
- 88. Point-protectors,
- 89. Knife-gages,
- 89. Reciprocatory-movement—
- 90. Shaving,
- 91. Revolving-pencil,
- 92. Rotary-movement—
- 93. Shaving,
- 94. Machines—
- 95. Rotating cutter and pencil,
- 96. Rotating-cutter.
- 97. Pen-extractors.
- 98. Penholders—
- 100. Angular-adjustment,
- 101. Releasing,
- 102. Grips—
- 103. Detachable,
- 104. Ink-guards,
- 106. Slant devices—
- 107. Supporting.
- 108. Pen racks and cleaners.
- 109. Pens—
- 109.5. Drawing,
- 110. Ruling,
- 111. Shading,
- 112. Stylus,
- 113. Reservoir attachments—
- 114. Nib-attached—
- 115. Integral.
- 116. Sealing-wax appliers.

121.—STEAM-ENGINES.

- 105. Attachments.
- 106. Cross-head.
- 2. Bell-ringer.
- 1. Combined engine and boiler.
- 120. Combined engine and gearing control.
- 117. Cylinder relief-valve.
- 44. Diaphragm.
- 96. Exhaust mechanism.
- 95. Exhaust-regenerated.
- 19. Hammers—
- 20. Piston-hammer,
- 22. Stamp,
- 21. Valveless.
- 122. Heat and power plants.
- 14. Locomotive—
- 15. Compound—
- 16. Cross,
- 17. Starting-valve,
- 17. Tandem.
- 115. Lubricators.
- 121. Miscellaneous.
- 116. Mufflers.
- Multiple-cylinder—
- 23. Longitudinal—
- 24. Multiple-valve,
- 25. Parallel,
- 26. Radial—
- 27. Multiple-valve,
- 28. Tandem—
- 29. Multiple-valve.
- Multiple-expansion—
- 32. Concentric-cylinder,
- 33. Cross—
- 34. Double-acting—
- 35. Multiple-valve,
- 31. Starting-valve,
- 36. Tandem—
- 37. Central-valve,
- 38. Double-acting—
- 39. Multiple-valve.
- 41. Multiple-piston.
- 42. Oscillating-cylinder.
- 43. Oscillating-piston.
- Packing—
- 108. Piston.
- 104. Pistons.
- 18. Portable.
- Pumping—
- 3. Compensating,
- 4. Duplex—
- 5. Multiple-expansion,
- 6. Multiple-cylinder,
- 7. Multiple-expansion,
- 8. Single-cylinder—
- 9. Trigger-valve.
- 46. Reciprocating-cylinder.
- 10. Rock-drills.
- 11. Piston-controlled valve,
- 12. Valveless.

121.—STEAM-ENGINES—Continued.

- 47. Rotary—
- 48. Alternating-piston,
- 50. Collapsible-tube,
- 51. Geared-abutment—
- 52. Compound,
- 53. Multiple-cylinder,
- 54. Geared-piston,
- 55. Gravity,
- 56. Impact—
- 57. Axial-flow,
- 58. Compound,
- 59. Injector,
- 60. Radial-flow,
- 61. Reaction,
- 62. Reciprocating-piston—
- 63. Cam,
- 64. Crank,
- 65. Rotary-cylinder—
- 66. Sliding-piston,
- 67. Sliding-abutment—
- 68. Compound,
- 69. Multiple-cylinder,
- 70. Radial—
- 71. Piston-operated,
- Sliding-piston—
- 73. Compound,
- 74. Concentric—
- 75. Cam-operated,
- 76. Longitudinal,
- 77. Steam-operated,
- 78. Eccentric—
- 79. Cam-operated,
- 80. Spring-operated,
- 81. Steam-operated,
- 72. Multiple-cylinder,
- 82. Swinging-abutment—
- 83. Compound,
- 84. Multiple-cylinder,
- 85. Spring-operated,
- 86. Steam-operated,
- 87. Swinging-piston—
- 88. Compound,
- 89. Multiple-cylinder,
- 90. Spring-operated,
- 91. Steam-operated,
- 92. Wabbling-piston—
- 93. Disk,
- 94. Plane.
- 45. Single-cylinder.
- 111. Speed-governors—
- 113. Marine,
- 118. Turbine-control,
- 13. Steering mechanism.
- 97. Valve-gear—
- 98. Link,
- 99. Rod,
- 100. Shifting-eccentric—
- 101. Automatic—
- 102. Inertia,
- 103. Tripping cut-off.
- 40. Valveless.

122.—LIQUID HEATERS AND VAPOR-

IZERS.*

- 1. Plants—
- 2. Garbage,
- 3. Motor-vehicle.
- 4. Miscellaneous.
- 5. Gas-producer.
- 6. Industrial—
- 6.5. Port,
- 6.6. Twyers—
- 6.7. Forge,
- 7. Waste-heat,
- 8. Water fire-box—
- 9. Water-tube type.
- 10. For fluid-fuel burner.
- 11. Rotary.
- 12. Rotatably-supported.
- 13. Stand-boller—
- 16. Fire-tube and water-tube—
- 17. Fluid-fuel,
- 17. Fire-tube—
- 17. Fluid-fuel,
- 18. Water-tube—
- Below boiler—
- 18. Fluid-fuel,
- Casing—
- 19. Fluid-fuel,
- 14. Fluid-fuel,
- 15. Solid-fuel.
- 20. Subsidiary.
- 29. Annular fire-box.
- 30. Magazine.

122.—LIQUID HEATERS AND VAPOR-IZERS—Continued.

- Indirectly-heated—
- Separate-fluid—
- 31. Injected,
- 32. Surface—
- 33. Furnace,
- 34. Separator.
- 35. Accumulator.
- 36. Auxiliary steam-heater.
- 37. Compartment—
- Auxiliary—
- 38. Draft-regulator.
- 39. Film.
- 40. Flasher—
- 41. Fluid-fuel.
- 42. Fire and water-tube—
- 43. Fluid-fuel.
- 44. Fire-tube—
- 49. Horizontal and vertical,
- Horizontal or inclined—
- Water fire-box—
- 50. Flue,
- 51. Horizontal—
- 52. Plural—
- 53. Water-tube,
- Central fire-box—
- 54. Double-outlet,
- 55. Cylinder,
- Depending fire-tube—
- 56. Rear of bridge-wall,
- Double water fire-box—
- 57. Alternate smoke-return,
- 58. Drop water fire-box—
- 59. Circulation-conduit,
- Double—
- 60. Alternate smoke-return,
- 61. Drop water-baffle,
- 62. Front and rear water-baffle,
- 63. Front water-baffle,
- 64. Interposed combustion-chamber,
- 65. Rear water-baffle,
- 66. Water coking-chamber,
- Water-grate—
- 67. Intermediate-draft,
- 68. Water-tube—
- Feed-heater—
- 69. Check-valved,
- 70. Feeding air,
- 71. Solid-baffle,
- 72. Projecting into fire-box—
- 73. Drop water fire-box,
- Return and reverse—
- 74. Drop water fire-box,
- 75. Return fire-tube—
- 76. Drop water fire-box—
- 77. Internal water-tube,
- Water fire-box—
- Flue
- 79. Subjacent water-arch,
- 80. Subjacent-flue,
- 81. Subjacent transverse fire-tube,
- Superjacent feed-heater—
- 82. In communication,
- 83. Transverse-diaphragm,
- Two diameters—
- 84. Great diameter over fire-box,
- 85. Small diameter over fire-box—
- 86. Water fire-box,
- 87. U-coupling,
- 88. Upper-drum,
- Water-arch—
- 89. Rear of fire-tube,
- 90. Water fire-box—
- Fire-box water-heater—
- 91. Trapped-circuit,
- 92. Magazine,
- 93. Offset—
- 94. Water-tube type,
- Plural—
- 95. Common combustion-chamber,
- 96. Superposed,
- Water-grate—
- 97. Downdraft,
- 98. Updraft,
- Water-tube—
- 99. Straddle,
- Water-tube type—
- 100. Interposed-flue,
- 101. Water smoke-box,
- Water-tube—
- Horizontal—
- 102. Over bridge-wall,
- 103. Rear of fire-tube,
- Rearwardly-declined—
- 104. Over bridge-wall,
- Rearwardly-inclined—
- 105. Over bridge-wall,

* See Definitions of Revised Classes.

| 122.—LIQUID HEATERS AND VAPORIZERS—Continued. | |
|---|-----------------------------|
| Fire-tube—Continued. | |
| Horizontal—Continued. | |
| 106. | Water-wall— |
| 107. | Drop water fire-box, |
| 108. | Subjacent water-tube, |
| 109. | Inclined, |
| Transverse— | |
| 110. | Horizontal-boiler, |
| 111. | Vertical-boiler— |
| 112. | Water fire-box, |
| 113. | Water-tube, |
| 114. | Vertical— |
| 116. | Central fire-dome, |
| 117. | Central-magazine, |
| Circulation-tube— | |
| 118. | Internal, |
| 119. | Cylinder, |
| 120. | Offset fire-box, |
| 121. | Return fire-tube— |
| 122. | Water fire-box, |
| 123. | Separate-compartment, |
| 124. | Side-magazine, |
| 125. | Top water-chamber, |
| 126. | Water fire-box— |
| 127. | Annular, |
| 128. | Central-magazine, |
| Water-grate— | |
| 129. | Downdraft, |
| 130. | Water-tube— |
| 131. | Internal, |
| 132. | Radial-loop, |
| 133. | Spur, |
| 135. | Fluid-fuel, |
| 134. | Volute, |
| 46. | Magazine, |
| Flue— | |
| 47. | Horizontal, |
| 48. | Vertical, |
| 45. | Fluid-fuel. |
| Flue— | |
| 135. | Horizontal— |
| 136. | Plural— |
| 137. | Water-tube, |
| 138. | Drop water fire-box, |
| 139. | Internal water-tube— |
| 140. | Longitudinal— |
| Drop water fire-box, | |
| 141. | Return fire-tube, |
| 142. | Spur, |
| 143. | Subjacent fire-box, |
| 144. | Transverse— |
| 145. | Drop water fire-box, |
| 146. | Return fire-tube, |
| 147. | Water fire-box, |
| 148. | Return fire-tube— |
| 149. | Rear water-tube, |
| 150. | Water smoke-box— |
| Separate, | |
| 151. | Water-grate in flue, |
| 152. | Water-tube— |
| 153. | Over bridge-wall, |
| 154. | Vertical— |
| 155. | Central-magazine— |
| 156. | Water-jacket, |
| Circulation-tube— | |
| 157. | Internal, |
| 158. | Concentric-shell— |
| 159. | Fluid-fuel, |
| 160. | Central-magazine, |
| 161. | Exterior-drum, |
| 162. | Internal water-heater, |
| 163. | Internal water-tube— |
| 164. | Central-magazine, |
| 165. | Coil— |
| 166. | Header, |
| 167. | Contracted-inlet, |
| 168. | Header, |
| 169. | Horizontal-spur, |
| 170. | Internal fire-tube, |
| 171. | Offset water fire-box, |
| 172. | Transverse— |
| 173. | Fluid-fuel, |
| 174. | Vertical aligned fire-tube— |
| 175. | Fluid-fuel, |
| 176. | Spur water-tube, |
| 177. | Vertical-spur, |
| 178. | Fluid-fuel, |
| 179. | Return fire-tube, |
| 180. | Spiral water-conduit— |
| 181. | Fluid-fuel, |
| 182. | Stand-pipe— |
| Water-tube— | |
| 183. | Annular fire-box, |
| 184. | Loop, |
| 185. | Spur, |
| 186. | Transverse fire-tube, |
| 187. | Insulated outlet-flue, |
| 188. | Fluid-fuel. |
| Horizontal-cylinder— | |
| 189. | Drop water-baffle, |
| 190. | Offset subjacent fire-box— |
| Water-roof, | |
| Water-tube, | |

| 122.—LIQUID HEATERS AND VAPORIZERS—Continued. | |
|---|-------------------------------|
| Horizontal-cylinder—Contd. | |
| 191. | Subjacent fire-tube— |
| 192. | Beyond bridge-wall, |
| 193. | Water bridge-wall, |
| 194. | Water fire-box— |
| 195. | Water-tube type, |
| Water-tube— | |
| 196. | Feed-heater— |
| 197. | Check-valved, |
| 198. | Lateral longitudinal, |
| 199. | Lateral vertical— |
| 200. | Fire-box, |
| 201. | Over fuel-grate, |
| 202. | Subjacent internal fire-tube, |
| Trapped-circuit, | |
| 203. | Water-grate— |
| 204. | Downdraft, |
| 205. | Intermediate-draft, |
| 206. | Multiple-series, |
| 207. | Solid and water bar, |
| Updraft. | |
| Plate— | |
| 208. | Zigzag-conduit— |
| Fluid-fuel. | |
| 209. | Sectional— |
| 210. | Plural fire-box, |
| 211. | Horizontal sections— |
| 212. | Superimposed— |
| 213. | Central-connection— |
| 214. | Fluid-fuel, |
| 215. | Water fire-box, |
| 216. | Water fire-box— |
| 217. | Central-magazine, |
| 218. | Water-tube— |
| 219. | Internal fire-tube— |
| 220. | Water fire-box, |
| Vertical sections— | |
| 221. | Annularly-positied— |
| 222. | Central-magazine, |
| 223. | Longitudinally-positied— |
| 224. | Casing, |
| 225. | Transversely-positied— |
| 226. | Casing— |
| 227. | Divided-section, |
| 228. | Water-grate, |
| 229. | Two-section, |
| 230. | Magazine, |
| 231. | Fluid or solid fuel, |
| 232. | Fluid-fuel, |
| 233. | Water-grate, |
| 234. | Accessories. |
| Tank— | |
| 235. | Horizontal, |
| 236. | Vertical. |
| Water-tube— | |
| 237. | Offset fire-box, |
| 238. | Superimposed fire-box, |
| 239. | Plural fire-box, |
| 240. | Fire-box in drum, |
| 241. | Capillary— |
| 242. | Fluid-fuel, |
| 243. | Coil or loop— |
| 244. | Central stand-pipe— |
| 245. | Fluid-fuel, |
| 246. | Annular fire-box, |
| 247. | Coil— |
| 248. | Horizontal— |
| 249. | Fluid-fuel, |
| 250. | Vertical— |
| 251. | Fluid-fuel, |
| 252. | Central-magazine, |
| 253. | Water fire-box, |
| 254. | Cross— |
| Over bridge-wall, | |
| Over fire-box— | |
| Longitudinal— | |
| Header— | |
| 255. | Drum, |
| Transverse— | |
| Header— | |
| 256. | Drum, |
| Transverse— | |
| Header— | |
| 257. | Drum, |
| 258. | Downflow, |
| 259. | Drum type, |
| 260. | Flat— |
| 261. | Volute, |
| 262. | Horizontal— |
| 263. | Over bridge-wall, |
| 264. | Over fire-box, |
| 265. | Inclined, |
| 266. | Internal fire-tube— |
| 267. | Horizontal, |
| 268. | Inclined, |
| 269. | Plural fire-tube, |
| 270. | Straddle, |
| 271. | Vertical— |
| 272. | Central-magazine, |

| 122.—LIQUID HEATERS AND VAPORIZERS—Continued. | |
|---|-------------------------------|
| Water-tube—Continued. | |
| 273. | Longitudinal upper drum— |
| 274. | Fluid-fuel, |
| 275. | Loop— |
| 276. | Fire-box inclosing, |
| 277. | Over bridge-wall, |
| Over fire-box— | |
| 278. | Cross, |
| 279. | Horizontal, |
| Rear of bridge-wall— | |
| 280. | Bridge-wall header, |
| 281. | Stand-pipe, |
| 282. | Vertical— |
| 283. | Fluid-fuel, |
| Over bridge-wall— | |
| 284. | Headers at right angles, |
| 285. | Transverse water-baffle, |
| Water-grate— | |
| 286. | Downdraft, |
| 287. | Intermediate-draft, |
| Over fire-box— | |
| 288. | Headers at right angles, |
| Water-grate— | |
| 289. | Updraft, |
| Rearwardly-declined— | |
| Over bridge-wall— | |
| 290. | Front and rear header— |
| 291. | Horizontal longitudinal drum— |
| 292. | Fire-box tube, |
| 293. | Longitudinal water-baffle, |
| 294. | Water-wall, |
| 295. | Internal water-tube, |
| 296. | Longitudinal declined drum, |
| 297. | Transverse-drum, |
| Over fire-box— | |
| Front and rear header— | |
| 298. | Horizontal longitudinal drum, |
| 299. | Transverse-drum, |
| 300. | Tubes beyond side wall, |
| Plural upper transverse drum— | |
| 301. | Plural lower transverse drum, |
| 302. | Single lower transverse drum, |
| Rearwardly-inclined— | |
| Over fire-box— | |
| Front and rear header— | |
| 303. | Transverse-drum, |
| Separate banks— | |
| 304. | Opposite fire-boxes, |
| 305. | Spur— |
| 306. | Bridge-wall header, |
| 307. | Central stand-pipe— |
| 308. | Fluid-fuel, |
| 309. | Annular fire-box, |
| 310. | Central-magazine, |
| 311. | Cross, |
| 312. | Horizontal longitudinal drum, |
| 313. | Over bridge-wall, |
| Over fire-box— | |
| 314. | Central-header, |
| 315. | Declined, |
| 316. | Horizontal, |
| 317. | Straddle, |
| 318. | Vertical— |
| 319. | Fluid-fuel, |
| 320. | Central-magazine, |
| 321. | Stand-pipe— |
| 322. | Fluid-fuel, |
| 323. | Annular fire-box, |
| 324. | Straddle— |
| Plural upper drum— | |
| 325. | Plural lower drum— |
| 326. | Cross, |
| Single upper drum— | |
| 327. | Plural lower drum— |
| 328. | Fluid-fuel, |
| 329. | Cross, |
| 330. | Plural fire-box, |
| 331. | Transverse horizontal drum, |
| 332. | Vertical— |
| 333. | Fluid-fuel, |
| 334. | Side-magazine, |
| 335. | Annular fire-box, |
| 336. | Offset fire-box— |
| 337. | Elevated, |
| Annular lower drum— | |
| 338. | Annular upper drum— |
| 339. | Central-magazine, |
| 340. | Tubes over fire-box, |
| 341. | Fire-tube upper drum, |
| 342. | Spur-tube upper drum, |
| 343. | Upper-drum— |
| 344. | Central-magazine, |

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
Water-tube—Continued.
 Vertical—Continued.
 345. Beyond bridge-wall—
 346. Gas-return,
 Longitudinal upper
 drum—
 347. Longitudinal lower
 drum,
 Internal fire-tube—
 348. Fluid-fuel,
 349. Over fire-box—
 350. Gas-return,
 Plural upper longitudinal
 drum—
 351. Plural lower longitudinal
 drum,
 Plural upper transverse
 drum—
 Plural lower transverse
 drum—
 352. Offset fire-box,
 353. Water-grate—
 354. Downdraft,
 355. Zigzag—
 356. Fluid-fuel,
 Over bridge-wall—
 Longitudinal-drum,
 358. Transverse-drum,
 359. Over fire-box,
 357. Magazine,
 237. Fluid-fuel,
 236. Headers—
 360. Closures and couplings—
 361. Cleaning,
 362. Concentric-tube,
 363. Drum,
 364. Tube-closures,
 365. Drums and couplings.
 366. Wick.
 367. Heat-transmitter.
 368. Water fire-box—
 369. Mud-ring,
 370. Plural.
 371. Water-grate—
 Plural fire-box—
 Superimposed—
 Water-grate—
 Updraft,
 372. Cage,
 373. Grate structure—
 374. Solid and water bar,
 375. Progressive-feed,
 376. Water fire-box—
 Solid and water bar—
 Updraft,
 377. Updraft,
 378. Updraft.
 21. Chemical.
 22. Fluid and solid fuel.
 23. Fluid-fuel—
 24. Explosion,
 Plural-burner—
 Superimposed.
 25. Friction-generator.
 26. Non-combustible heater—
 Surface,
 27. Water in contact.
 28. Cleaning—
 379. Agitating-circulator,
 380. Blow-off—
 Bottom and surface,
 382. Bottom—
 383. Internal-conduit—
 384. Ejector,
 385. Mud-ring,
 386. Pan,
 387. Scraper,
 388. Valved,
 389. Surface-exit,
 390. Fluid-jet—
 391. Horizontal-fire-tube boiler,
 392. Water-tube boiler,
 393. Mud-drum,
 394. Pans,
 395. Sand-blast,
 396. Systems,
 397. Trapped-circuit—
 Feeding water,
 399. Surface and bottom exit,
 400. Surface-exit—
 401. Chemical-feeder,
 402. Circulating-pump,
 403. Feed-heater,
 404. Steam-injector,
 405. Washout-nozzle.
 406. Circulation—
 407. Injector,
 408. Internal-conduit—
 409. Horizontal-flue boiler—
 Return fire-tube,
 410. Mechanical—
 411. Internal.

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
Feed-heaters—
 412. Ash-pan,
 413. Boiler-circuit—
 414. Feed-injected,
 Circulation—
 Surface-exit—
 Mechanical-pump—
 415. Feed-injected,
 416. Compound-engine,
 417. Drip-plate in boiler,
 Fire-engine boiler—
 Auxiliary—
 418. Attached,
 419. Detachable,
 420. Furnace-gases—
 421. Off-take flue,
 422. Furnace-gases and steam,
 Horizontal-fire-tube boiler—
 Smoke-box—
 423. Exhaust-pipe,
 424. Furnace-gases and steam,
 425. Water-tube,
 426. Smoke-chamber,
 427. Internal-conduit—
 428. Automatic sediment-valve,
 429. Blow-off delivery,
 430. Filter in boiler,
 431. Furnace-gases,
 432. Trap outside boiler,
 433. Locomotive-tender,
 434. Pan in steam-space—
 435. Spray,
 436. Safety-valve,
 437. Spray to steam-space,
 438. Stack—
 439. Furnace-gases and steam,
 440. Steam—
 441. Injected—
 Superposed—
 Open to steam space,
 442. Water-tube boiler.
Regulation—
 443. Depending on load,
 444. Fuel and water—
 445. Fluid-fuel—
 446. Cut-off,
 447. Automatic-control—
 448. Fluid-fuel,
 449. Solid-fuel,
 450. Suspended-boiler.
Feeders—
 451. Boiler-pressure,
 452. Exhaust-steam—
 453. Water-injected—
 454. From boiler,
 455. Gravity—
 Automatic—
 456. Heater,
 457. Heater.
Steam treatment—
 458. Boilers with superheaters,
 459. Fire-tube boiler—
 Horizontal—
 Superheater—
 In fire-tube—
 From smoke-box,
 461. Interior steam-space—
 462. Internal fire-tube,
 Smoke-box—
 Fire-tube,
 463. Steam-tube,
 Superheater and feed-heater,
 464. Vertical—
 Superheater,
 Flue-boiler—
 Vertical—
 Internal water-tube—
 Superheater,
 465. Horizontal-boiler—
 Superheater—
 Rear of fire-box,
 466. Waste-heat flue,
 Water-tube boiler—
 Declined over bridge-wall—
 Front and rear header—
 Declined-drum—
 Superheater,
 467. Longitudinal-drum—
 Superheater,
 468. Longitudinal-drum—
 Superheater,
 Over bridge-wall—
 Superheater,
 Stand-pipe—
 Spur-tube—
 Superheater,
 469. Transverse-drum—
 Superheater,
 470. Superheater and feed-heater,
 Superheater,
 471. Superheater,
 472. Superheater,
 473. Superheater,
 474. Superheater,
 475. Superheater,
 476. Superheater,
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122.—LIQUID HEATERS AND VAPORIZERS—Continued.
Steam treatment—Continued.
 Superheater—
 479. Automatic heat regulation,
 480. Damper-controlled,
 481. Fire-box,
 482. Fire-tube in steam-space,
 483. Indirectly-heated,
 484. Separate charges,
 485. Separate-furnace,
 486. Steam-dome,
 487. Water-injected.
Separators—
 488. Boiler circulation,
 489. Boiler-return,
 490. For tilting boilers,
 491. Interior of boiler,
 492. Steam-dome.
Braces and stays.
Casings.
Crown-sheet protecting.
Crown-sheets and stays.
Fronts—
 497. Doors,
 498. Mouths—
 500. Water fire-box.
Fluid-displacer—
 501. Fluid-fuel.
Fuel-baffles.
Safety devices—
 505. Fire-extinguishers—
 Float-controlled,
 506. Pressure-controlled,
 507. Self-closing valve.
Steam-domes.
Submerged steam-chamber.
Supports.
Tubes and connections.
Tube-sheets.

123.—INTERNAL-COMBUSTION ENGINES.*
 1. Miscellaneous.
 2. Combined devices—
 3. Generating plants,
 4. Internal-combustion and fluid-
 pressure—
 5. Fluid-transmission,
 6. Waste-heat utilizing.
 7. Hammers.
Rotary—
 9. Impact,
 10. Reaction,
 11. Alternating pistons,
 12. Geared pistons,
 13. Rotating-abutment,
 14. Sliding-abutment,
 15. Swinging-abutment,
 16. Sliding-piston,
 17. Swinging-piston.
Oscillating-piston.
Liquid-piston.
Steam-convertible.
Convertible-cycle.
Internal combustion and air.
Solid-fuel.
Gunpowder.
Water and hydrocarbon.
Additional air-supply.
Burning by highly-compressed air.
Oil-engines—
 Pump-supply to air-inlet—
 Four-cycle,
 28. Two-cycle,
 29. Internal vaporizing—
 30. Four-cycle,
 31. Forced oil-supply—
 32. Oil-atomizing,
 33. External vaporizing—
 34. Four-cycle.
Multiple-expansion.
Multiple-explosion.
Atmospheric.
Non-compression.
Vacuum-exhaust.
Reversible.
Oscillating-cylinder.
Rotating-cylinder—
 Radial.
Rotary reciprocating piston.
Free-piston.
Valve-piston.
Adjustable combustion-chamber.
Valve-controlled combustion-chamber.
Reciprocating-cylinder.
Multiple-piston.

* See Definitions of Revised Classes.

123.—INTERNAL-COMBUSTION ENGINES—Continued.

- 52. **Multiple-cylinder—**
- 53. Simultaneous-expansion,
- 54. Cylinders offset,
- 55. Cylinders radiating,
- 56. Cylinders opposite,
- 57. Cylinders tandem,
- 58. Cylinders parallel,
- 59. Cylinders longitudinal—
- 60. Cranks coincident.
- Double-acting—**
- 61. Two-cycle—
- 62. Combined pump and motor cylinder,
- 63. Four-cycle.
- Six-cycle.**
- Two-cycle—**
- 66. Combined pump and motor cylinder,
- 67. Divided pump discharge,
- 68. Pump-compression,
- 69. Separate air and gas pumps,
- 70. Pump and cylinder adjacent,
- 71. Pump and cylinder coaxial,
- 72. Pump and cylinder inclined,
- 73. Rear-compression—
- 74. Crank-case,
- 75. Cylinder.
- Four-cycle—**
- 76. Scavenging,
- 77. Single-revolution,
- 78. Variable-clearance,
- 79. Single puppet-valve,
- 80. Rotating-valve,
- 81. Oscillating-valve,
- 82. Rotating side shaft,
- 83. Rotating transverse shaft,
- 84. Adjacent supply and exhaust valves,
- 85. Alined supply and exhaust valves,
- 86. Opposite supply and exhaust valves,
- 87. Longitudinal valve and lever,
- 88. Transverse valve and lever,
- 89. Transverse valve and bell-crank.
- Speed-regulators—**
- 97. Manually-controlled,
- 98. Combined types—
- 99. Charge volume and proportion varying,
- 100. Charge varying and omitting,
- 101. Pneumatic,
- 102. Supply-pump regulating,
- 103. Charge-rejecting,
- 104. Charge-proportion varying—
- 105. Exhaust-regulating,
- 106. Charge-volume varying—
- 107. Throttling,
- 108. Supply-valve lift-regulating,
- 109. Automatic cut-off,
- 110. Charge-omitting—
- Centrifugal-governor—
- Supply and exhaust valve regulating,
- 112. Supply-valve regulating,
- 113. Exhaust-valve regulating,
- 114. Inertia-governor—
- Supply and exhaust valve regulating,
- 115. Supply-valve regulating,
- 116. Exhaust-valve regulating,
- 117. Automatically-controlled igniting device,
- 118. Ignition-omitting.
- Valve-operating mechanism—**
- 91. Four-cycle—
- 92. Pneumatic,
- 93. Double-loop cam,
- 94. Intermittently-operated cam,
- 95. Intermittently-operated tappet,
- 96. Two-to-one gearing.
- Igniters—**
- 143. Flame,
- 144. Incandescent—
- 145. Valve-controlled,
- 146. Sparkers—
- 147. Low-tension,
- 148. High-tension,
- 149. Dynamos,
- 150. Combined adjusting and exhaust-regulating,
- 151. Combined sparkers and valve,
- 152. Combined valve and sparkers operating,
- 153. Plugs,
- 154. Make-and-break—
- Electromagnetic,
- 155. Pneumatic,
- 156. Piston-operated,
- Reciprocating-electrode,

123.—INTERNAL-COMBUSTION ENGINES—Continued.

- Igniters—Continued.**
- Sparkers—Continued.
- Make-and-break—Continued.
- 157. Rocking-electrode hammer-action,
- 158. Rocking and rigid electrodes,
- 159. Rocking and yielding electrodes,
- 160. Oscillating-electrode,
- 161. Rotary-electrode,
- 163. Stationary-electrode structure,
- 164. Adjusting mechanism,
- 165. Circuit-closers—
- 166. Single-circuit,
- 167. Multiple-circuit,
- 168. Primary and secondary control.
- Compensating devices.**
- Transmission mechanism.**
- Starting devices—**
- 180. Combustible-mixture supply,
- 187.5. Primers,
- 183. Gunpowder,
- 181. Compressed-air supply,
- 182. Compression-relieving,
- 185. Mechanical—
- 186. Spark-delaying,
- 187. Motors,
- 184. Igniters.
- Charge-forming devices—**
- 123. Governor-controlled,
- 121. Combined oil and gas,
- 120. Gas and air mixers
- Automatic-dilution,
- 127. Multiple oil-supply,
- 128. Constant oil-supply,
- 129. Oil-intercepting,
- 130. Valve-controlled oil—
- Positively-operated,
- 131. Atomizers—
- 132. Constant-level,
- 133. Oil-evaporating—
- 134. Submerged air-supply,
- 135. Extended oil-film,
- 122. Heating,
- 136. Oil-feeding—
- 137. Reciprocating,
- 138. Rotary,
- 139. Pumps—
- 140. Governor-controlled,
- 126. Movable-carrier,
- 141. Mixing devices,
- 142. Safety devices.
- Cooling—**
- 171. Air-cooled,
- 172. Combined packing and cooling,
- 173. Cylinder, jacket, and head construction,
- 174. Heat-dissipating devices,
- 175. Liquid-impelling devices,
- 176. Rod and piston,
- 177. Valve,
- 178. Temperature-regulators.
- Combustion-chambers.**
- Cylinder and piston construction.**
- 188. Valves—
- 189. Detachable,
- 190. Rotary.
- Exhaust treatment.**
- Frame construction.**
- Lubricators.**
- 198. Accessories.

124.—AIR-GUNS, CATAPULTS, AND

- TARGETS.***
- 1. Catapults—
- 2. Rubber-spring.
- 3. Target-traps—
- 4. Magazine,
- 5. Pivoted throwing-arm—
- 6. Rotatable.
- 7. Bows and cross-bows.
- Guns—**
- 8. Air—
- 9. Blow,
- 10. Spring—
- 11. Magazine,
- 12. Spring—
- 13. Magazine,
- 14. Rubber.
- 15. Targets—
- 15.5. Aim-recorders,
- 16. Moving,
- 17. Flying—
- 18. Balls.

125.—STONE-WORKING.

- 2. Channeling-machines.
- 4. Diamond-tools.
- 5. Dressing slate.
- 6. Dressing stone.
- 11. Millstone-dressing machines.
- 13. Millstone-picks.
- 14. Mining-machines.
- 20. Miscellaneous.
- 15. Monuments.
- 18. Sawing stone.
- 19. Tools.

126.—STOVES AND FURNACES.*

- 204. **Foot-warmers—**
- 205. Bed-heaters,
- 207. Heated-block,
- 206. Composition-fuel,
- 208. Liquid or gaseous fuel—
- 209. Combined heater and lantern,
- 210. Water-heater.
- 225. **Tool-heaters—**
- 236. Soldering-iron—
- 237. Gas-heaters—
- 238. Tool-controlled valve,
- 239. Liquid-fuel—
- 240. Combined heater and solder-pot,
- 241. Lamp,
- 229. Liquid or gaseous fuel—
- 231. Gas-burner attachments—
- 232. Combined lighting and heating,
- 233. Jet-mixer,
- 234. Tool-controlled valve,
- 235. Lamp attachments,
- 230. Flat-iron—
- 227. Flat-iron—
- 228. Attachments.
- 284. **Glue-pots.**
- Dough-raisers—**
- 282. Lamp type.
- 272. **Liquid-sterilizers.**
- 343.5. **Melting-furnaces.**
- 344. **Water-heaters—**
- 345. Kettle-furnace—
- 346. Canning,
- 348. Steam generators and cookers,
- 349. Tilting,
- 347. Horizontal combustion-chamber,
- 369. Steaming apparatus,
- 361. Stand-boilers—
- 362. Circulation,
- 363. Supports,
- 364. Stovepipe—
- 365. Circulation,
- Submerged—
- 367. Portable,
- 366. Closed systems pipes,
- 368. Stationary,
- Vessels—
- 370. Steam or water heated—
- 371. Closed chamber or coil,
- 372. Jet,
- 350. Liquid or gaseous fuel—
- 351. Automatic,
- 355. Drip-plate,
- 357. Hinged or separable,
- 358. Lamp type,
- 359. Overflow,
- 360. Submerged.
- Heaters—**
- 246. Dish,
- 259. Powder,
- 261. Lunch—
- 268. Wagon,
- 265. Liquid or gaseous fuel—
- 266. Dinner-buckets—
- 267. Combined bucket and lantern,
- 262. Combined can and heater—
- 263. Chemical-heater,
- 271.1. Surface—
- 271.2. Fluid-fuel,
- 271.3. Solid-fuel,
- 270. Solar—
- 271. Water,
- 247. Frictional,
- Liquid or gaseous fuel—
- Attachments—
- 248. Drum,
- 249. Gas-jet—
- 254. Combined,
- 252. Article-support—
- 253. Jet-mixer,
- 250. Air—
- 251. Jet-mixer,

* See Definitions of Revised Classes.

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| 126.—STOVES AND FURNACES—Contd. | |
| Heaters—Continued. | |
| Liquid or gaseous fuel—Contd. | |
| Attachments—Continued. | |
| 255. | Lamp— |
| | Chimney-heaters— |
| 258. | Article-support, |
| 257. | Air, |
| | Stands— |
| 260. | Article-support, |
| 259. | Air-heaters, |
| 256. | Article-support. |
| Trash-burners— | |
| 222. | Cooking-stoves— |
| 223. | Feeding attachments, |
| 225. | Heating-stoves, |
| 224. | Domestic-refuse burners. |
| Fireplaces— | |
| 120. | Hot-air— |
| 121. | Two-room heaters, |
| 122. | Stove structure— |
| 123. | Magazine, |
| 124. | Two-room direct radiation, |
| 125. | Stove structure, |
| 126. | Water-backs— |
| 132. | Liquid or gaseous fuel, |
| 133. | Liquid or gaseous fuel— |
| 127. | Asbestos-fireback— |
| 128. | Hot-air, |
| 129. | Firebacks— |
| 130. | Hot-air, |
| 131. | Blowers— |
| 135. | Stove structure, |
| 136. | Cooking and oven attach- |
| 137. | ments, |
| 138. | Fronts— |
| 139. | Frames, |
| 140. | Grate-closure, |
| 141. | Heat-reflector, |
| 142. | Hoods, |
| 143. | Hearths, |
| 134. | Air-moistening attachments. |
| 99. | Hot-air furnaces— |
| 100. | Combined with cooking-stove, |
| 101. | Combined with boiler— |
| 101.5. | Locomotive, |
| 110. | Compressed-air, |
| 111. | Double fire-pot, |
| 116. | Liquid or gaseous fuel, |
| 117. | Preliminary air-heater, |
| 106. | Internal air-chamber, |
| 108. | Secondary heating-chamber |
| | horizontally arranged, |
| 109. | Tubular air-heater, |
| 107. | Magazine, |
| 104. | Horizontal combustion-cham- |
| | ber, |
| 102. | Circular radiating-drum, |
| 103. | Downdraft, |
| 112. | Feeding air, |
| 113. | Air-moisteners, |
| 114. | Casings, |
| 115. | Dust-flue, |
| 105. | Hot-air equalizers, |
| 118. | Radiating-flanges, |
| 119. | Joints, |
| Stoves— | |
| 1. | Cooking— |
| 24. | Ship's-galley, |
| 25. | Summer— |
| 29. | Field— |
| 30. | Supporting-frame, |
| 27. | Stove-top supported— |
| 28. | Stove-flue connected, |
| 26. | Detachable fire-pot, |
| 9. | Knockdown or separable, |
| 4. | Combined cooking and heat- |
| | ing stove— |
| 5. | Steam or water generators, |
| 6. | Air-heating, |
| 7. | Magazine, |
| 8. | Brick-set, |
| 23. | Reversible, |
| 2. | Double fire-pot— |
| 3. | Cooking and heating, |
| 10. | Magazine— |
| 11. | Portable, |
| 33. | Tables, steam-heated, |
| 55. | Combined base and hot- |
| | closet, |
| Liquid or gaseous fuel— | |
| 38. | Folding or nesting kit, |
| 37. | Cabinet, |
| 36. | Combined coal and gas, |
| 52. | Valve mechanism, article- |
| | controlled, |
| 53. | Water-backs— |
| 54. | Combined burner and |
| | water-back, |
| 39. | Gas— |
| 41. | Broilers, |
| 40. | Burner-stands, |
| 42. | Safety attachments, |

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| 126.—STOVES AND FURNACES—Contd. | |
| Stoves—Continued. | |
| Cooking—Continued. | |
| Liquid or gaseous fuel—Con. | |
| Liquid— | |
| 43. | Alcohol, |
| 44. | Vapor, |
| 45. | Wick— |
| 46. | Extension-top, |
| 47. | Lamp type— |
| 48. | Combined top, chim- |
| | ney, and burner, |
| 49. | Reservoir-supporting |
| | top and burner, |
| 50. | Supporting-frame, |
| 51. | Drip pan or receptacle, |
| 15. | Feeding air, |
| 16. | Flue-cleaners, |
| | Elevated ovens— |
| 17. | Smoke-pipe heated, |
| 18. | Top-plate supported, |
| 19. | Ovens— |
| 20. | Steam or hot water, |
| 21. | Ventilated, |
| 22. | Protector-plate, |
| 34. | Water-backs— |
| 35. | Safety devices, |
| | Water-heating— |
| 31. | Flue-extension, |
| 12. | Hearths— |
| 13. | Fire-pot, |
| 14. | Broiling attachments, |
| 32. | Spittoon attachments, |
| 56. | Car— |
| 57. | Protective casings, |
| 58. | Heating— |
| 59. | Camp, |
| 59.5. | Orchard, |
| 60. | Horizontal-body— |
| 61. | Hot-air, |
| 62. | Open-front— |
| 63. | Hot-air, |
| 64. | Panel, |
| 65. | Sheet-metal— |
| 66. | Hot-air, |
| 79. | Smoke and gas returning, |
| 84. | Liquid or gaseous fuel— |
| | Combined heating and |
| | ventilating, |
| 85. | Gas— |
| 91. | Radiator type, |
| 86. | Open-front— |
| 87. | Asbestos-fireback— |
| 88. | Hot-air, |
| 89. | Hot-air, |
| 90. | Hot-air, |
| 92. | Incandescent fire-grate, |
| 93. | Liquid— |
| 94. | Flue-connected, |
| 95. | Vapor, |
| 96. | Wick— |
| 97. | Heating and illumi- |
| | nating, |
| 67. | Hot-air— |
| 68. | Magazine, |
| 69. | Reversible-draft, base- |
| | heating, |
| 72. | Tubular air-heaters, |
| 70. | Internal air-chamber, |
| 71. | Central air-tube, |
| 73. | Magazine— |
| 74. | Reversible-draft, base- |
| | heating, |
| 75. | Reversible-draft, base-heat- |
| | ing, |
| 76. | Downdraft, |
| 77. | Feeding air, |
| 78. | Feeding steam, |
| 80. | Ventilating attachments, |
| 81. | Stove-plates, |
| 82. | Adjustable pipe-collar, |
| 83. | Deflector-plate, |
| 98. | Joints. |
| Ovens— | |
| 273. | Domestic— |
| 274. | Dutch, |
| 275. | Portable, |
| 276. | Wagon. |
| 144. | Fire-pots and linings— |
| | Rotary— |
| 149. | Horizontal-axis, |
| 150. | Vertical-axis, |
| 145. | Adjustable, |
| 146. | Feeding air, |
| 147. | Divided, |
| 151. | Sectional, |
| 148. | Fire-plate, |
| 242. | Ash discharge and collecting— |
| 245. | Combined stove and ash-pan, |
| 243. | Ash-pans— |
| 244. | Sifting. |

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| 126.—STOVES AND FURNACES—Contd. | |
| 211. | Stove lids and tops— |
| 217. | Heating-stove— |
| 218. | Cooking attachments, |
| 219. | Ornaments and urns, |
| 213. | Illuminating, |
| 214. | Liquid or gaseous fuel— |
| 215. | Elevating-support, |
| 216. | Extension-top, |
| 212. | Centers or cross-pieces, |
| 220. | Lids, |
| 221. | Stove-mats. |
| 190. | Stove doors and windows— |
| 198. | Oven-doors, ventilating, |
| 193. | Feeding air, |
| 191. | Balanced, |
| 196. | Latches— |
| 197. | Combined latch and opera- |
| | tor, |
| 192. | Door-operator, |
| 194. | Hinges, |
| 195. | Knobs, |
| 199. | Thermometer attachments, |
| 200. | Transparent-panel. |
| 332. | Stove-shelves— |
| 336. | Fireplace-grate, |
| 337. | Oven shelf or rack— |
| 338. | Rotary, |
| 339. | Sliding— |
| 340. | Door-operated, |
| 334. | Drop— |
| 335. | Door-operated, |
| 341. | Stovepipe— |
| 342. | Drop, |
| 343. | Swinging, |
| 333. | Brackets or stands. |
| 245. | Dampers— |
| 286. | Distance operating devices— |
| 287. | Door-operated, |
| 288. | Fireplace, |
| 289. | Stove— |
| 290. | Draft, |
| 291. | Repair, |
| 292. | Stovepipe— |
| 293. | Combined damper and ven- |
| | tilator, |
| 295. | Lock and indicator, |
| 296. | Multiple, |
| 297. | Sinuous-passage, |
| 294. | Cone. |
| 152. | Grates— |
| 164. | Fireplace— |
| 165. | Basket, |
| 163. | Feeding air, |
| 153. | Adjustable— |
| 154. | Vertically, |
| 160. | Closures, |
| 166. | Fuel cut-off, |
| 161. | Cut-off, |
| | Rotary— |
| 181. | Horizontal-axis, |
| 182. | Vertical-axis, |
| | Oscillatory— |
| 170. | Vertical-axis— |
| 171. | Dumping-section, |
| 172. | Sliding-section, |
| 176. | Rocking-bar— |
| 177. | Dumping, |
| 178. | Duplex, |
| 179. | Grate-bar— |
| 180. | Removing fuel-support, |
| 174. | Reciprocating— |
| 175. | Alternate-bar, |
| 155. | Agitating— |
| 159. | Pocket, |
| 158. | Dumping, |
| 156. | Alternate ends, |
| 157. | Alternate-bar, |
| 162. | Dumping, |
| 167. | Grate-bar— |
| 168. | Removable fuel-support, |
| 169. | Operating mechanism, |
| 173. | Raking attachments. |
| 299. | Stove-hoods— |
| 300. | Stove-discharge, |
| 301. | Stovepipe-discharge— |
| 302. | Stove-casing, |
| 303. | Top-plate casing. |
| 307. | Stovepipes— |
| 312. | Ventilation, |
| 310. | Elbows— |
| 311. | Changeable-angle, |
| 309. | Seam, |
| 308. | Joints or couplings, |
| 313. | Air-moistening attachments. |
| 314. | Stovepipe-thimbles— |
| 316. | Combined thimble and venti- |
| | lator, |
| 315. | Adjustable flue-collar, |
| 318. | Stovepipe anchor or lock, |
| 319. | Flue-stoppers, |
| 317. | Floor or ceiling plates. |
| 280. | Soot-catchers. |

* See Definitions of Revised Classes.

126.—STOVES AND FURNACES—Con.

- 201. Fenders—
- 202. Fire screen or guard,
- 203. Fireplace-hearth.
- 298. Fire-dogs.
- 277. Platforms—
- 278. Stove-boards—
- 279. Ventilating.
- 304. Stove-legs—
- 305. Base-supports,
- 306. Sheet-metal.
- Stove implements—
- 320. Combined,
- 321. Fire-tongs,
- 322. Handles,
- 323. Lid-lifter,
- 324. Poker,
- 283. Fuel-boxes.

127.—SUGAR AND SALT.

- 1. Bleaching cane-juice.
- 2. Bone-black.
- 4. Confectionery.
- 6. Cube sugar.
- 7. Defecating.
- 8. Diffusion apparatus.
- 9. Evaporating-pans.
- 10. Glucose.
- 19. Graining and draining.
- 11. Mixers.
- 12. Molds and carriages.
- 14. Refining sait.
- 15. Refining sugar.
- 16. Sait-making.
- 23. Starch.
- 17. Sugar-making.
- 24. Vacuum-coolers.
- 18. Vacuum-pans.

128.—SURGERY.

- 2. Atomizers.
- 3. Bandages—
- 38. Suspensory,
- 39. Water.
- 4. Breast-pumps.
- 32. Capsule-machines.
- 5. Catamenial sacks.
- 9. Depurators.
- 10. Ear.
- 11. Eye.
- 52. Fracture apparatus.
- 13. Inhalers and respirators—
- 42. Mask.
- 43. Laryngoscopes.
- 28. Miscellaneous.
- 16. Movement cure.
- 17. Nasal douches.
- 44. Needle holders and cases.
- 18. Nipples.
- 20. Obstetrics.
- 21. Pessaries.
- 22. Pharmaceutical.
- 53. Plastic splints.
- 23. Scarificators and lancets.
- 24. Speculums.
- 25. Syringes—
- 45. Expanding-arm,
- 46. Pile.
- 47. Water-bag.
- 26. Trusses.
- 51. Urinary apparatus.
- 27. Veterinary—
- 54. Ring-inserters,
- 55. Snout-cutters.

129.—PAPER FILES AND BINDERS.*

- 1. Miscellaneous.
- 7. Pins and punches.
- 3. Pins and indexes.
- 14. Followers and index-partitions.
- 15. Indexes—
- 16. Card—
- 16.1. Selective,
- 16.5. Systems,
- 16.7. Filing elements—
- 16.8. Tabs.
- 2. Continuous-web.
- 34. Hinged-leaf supports.

129.—PAPER FILES AND BINDERS—

- Continued.
- 19. Stubs and flaps.
- 20. Scrap-book and album leaves.
- 8. Pins and transfer-wires—
- 9. Sliding-base,
- 10. Swinging,
- 11. Titting.
- 18. Notched leaves.
- 17. Pins and hinged backs.
- 12. Projecting pins and covers.
- 13. Extensible pins and covers.
- 25. Binding-wires.
- 4. Pins and followers—
- 5. Spring—
- 6. Sliding.
- 21. Pins—
- 22. Cord-carrying,
- 23. Guarded,
- 24. Hinged,
- 42. Transverse cords and leaf-attachers.
- 41. Transverse cords.
- Fold-engaging—
- 38. Bars,
- 39. Cords,
- 40. Hooks.
- Followers—
- 27. Locking—
- 28. Racks,
- 29. Lever-operated catch,
- 30. Spring-operated catch,
- 31. Tilting-release,
- 32. Spring—
- 33. Double-acting.
- 35. Clamping—
- 36. Parallel bars,
- 37. Spring-backs.
- 43. File-boxes.

130.—THRESHING.

- 1. Band-cutters and feeders.
- 31. Cane-strippers.
- 2. Clover-hullers.
- 3. Corn-cribs.
- 4. Corn-husking implements.
- 5. Corn-husking machines.
- Corn-shellers—
- 6. Breast and cylinder.
- 7. Disk-action,
- 9. Ear-grasping,
- 10. Implements,
- 8. Peripheral-action.
- 12. Fans and regulators.
- 33. Feeders for shellers and huskers.
- 13. Flax-threshers.
- 32. Fruit and vegetable separators.
- Grain-separators—
- 17. Gravity,
- 18. Oat, seed, and garlic,
- 16. Rotary screens,
- 19. Screens and riddles,
- 15. Shaking screens,
- Straw-carriers—
- 21. Endless aprons,
- 22. Overhung rakes,
- 23. Reels,
- 24. Shaking tables,
- 25. Vibrators,
- 26. Walking-rakes.
- 14. Granaries and bins.
- Stackers.
- Threshing-machines—
- 27. Cylinder-machines,
- 29. Dust-conveyers,
- 28. Flail-machines.
- 30. Vine and seed strippers.

131.—TOBACCO.

- 37. Cigar and cigarette cutters.
- 61. Cigar-banding.
- 18. Cigar-bundling.
- 38. Cigar-cutters, tip.
- 47. Cigar-machine aprons.
- 5. Cigar-machines—
- 39. Adjuncts,
- 40. Apron—
- 41. Moving rolling-table,
- 42. Stationary rolling-table,
- 43. Endwise-moving filler,
- 44. One traveling apron,
- 45. Roller,
- 46. Two traveling aprons.

131.—TOBACCO—Continued.

- 48. Cigar-makers' implements—
- 49. Wrapper-cutters.
- 20. Cigar-perforators.
- 51. Cigar supports and stands.
- 52. Cigars, cigarettes, and cartridges.
- 6. Curing.
- 55. Dressing, casing, and flavoring.
- 7. Granulating.
- 60. Leaf-treating—
- 56. Booking,
- 58. Stem-crushing,
- 57. Stemming.
- 30. Moistening.
- 9. Molding cigars
- 10. Monthpieces.
- 11. Packing.
- 13. Pipe-cleaners.
- 12. Pipes and stems.
- 14. Plug-making.
- 15. Plugs.
- 31. Smoking-tobacco.
- 22. Smoking-tubes.
- 16. Snuff manufacture.
- Tobacco-cutters—
- 33. Pivoted knife,
- 34. Reciprocating-knife,
- 35. Rotating-knife.
- 21. Tobacco-hangers.
- 59. Tobacco-users' appliances.
- 36. Wrappers.

132.—TOILET.

- 30. Boot-holders, horns, and jacks.
- 3. Combs—
- 17. Cleaners,
- 16. Personal-wear.
- 18. Hair-crimpers.
- 19. Hair-curiers—
- 20. Rotary.
- 31. Hair-dressers' guides.
- 22. Hair-fasteners.
- 23. Hair structures—
- 24. Making.
- 25. Hat-fasteners.
- 8. Mustache-guards.
- 27. Pin-holders.
- 28. Powder-puffs.
- 29. Razor-cleaners.
- 15. Shaving-cups.
- 11. Toilet-cases.
- 12. Toothpicks.

133.—COIN-HANDLING.*

- 1. Miscellaneous.
- 2. Change-makers.
- 3. Assorters.
- Deliverers—
- 4. Multiple,
- 5. Single—
- 6. Hand-operated.
- 8. Counters.
- 7. Tubes.
- 9. Packages—
- 10. Wrappers.
- 11. Receptacles—
- 12. Mats and trays—
- 13. Counter,
- 14. Mounted.

134.—LIQUID COATING COMPOSITIONS.*

- 1. Miscellaneous.
- 1.5. Ink-repellent.
- 24. Furniture-polish.
- 25. Stove-polish.
- 27. Window-frost preventive.
- 2. Barrel-lining—
- 3. Bituminous and resinous—
- 4. Tar,
- 5. Wax,
- 6. Gelatinous and gummy.
- 7. Leather coating and polishing—
- 8. Bituminous and resinous—
- 9. Wax,
- 10. Gelatinous and gummy.

* See Definitions of Revised Classes.

134.—LIQUID COATING COMPOSITIONS—Continued.

11. **Fabric coating and water-proofing—**
 12. Proteids,
 13. Bituminous and resinous—
 14. Tar,
 15. Wax,
 16. Gelatinous and gummy,
 17. Rubber.
- 17.5. **Puncture-healing.**
18. **Sizing—**
 19. Laundry starch and polish,
 20. Proteids,
 21. Bituminous and resinous—
 22. Wax,
 23. Gelatinous and gummy.
28. **Ink—**
 29. Sympathetic,
 30. Branding,
 31. Copying,
 32. Indelible,
 33. Fraud-preventive,
 34. Stamping,
 35. Printers'—
 36. Bituminous and resinous,
 37. Writing—
 38. Powders.
- 24.5. **Metal-depositing.**
79. **Pyroxylin.**
26. **Varnish.**
39. **Paint—**
 40. Antifouling and insecticidal—
 41. Bituminous and resinous—
 42. Tar,
 43. Wax,
 44. Fireproof—
 45. Soluble silicates,
 46. Distemper,
 47. Luminous,
 48. Stains,
 49. Fillers,
 50. Proteids,
 51. Bituminous and resinous—
 52. Tar,
 53. Wax,
 54. Rubber,
 55. Gelatinous and gummy,
 56. Vehicles,
 57. Driers,
 58. Pigments—
 59. Iron salts,
 60. Lampblack—
 61. Reciprocating collector-plate,
 62. Reciprocating scraper,
 63. Rotating burners,
 64. Rotating collector-plate,
 65. Rotating cylinder,
 66. Settling-chambers,
 67. Lead salts—
 68. Attrition process,
 69. Dry process—
 70. Carrier,
 71. Stack,
 72. Pots,
 73. Treating,
 74. Wet process—
 75. Alkali,
 76. Ammonium-acetate,
 77. French,
 78. Metallic powders,
 79. Ultramarine,
 80. Zinc salts.

135.—TENTS, CANOPIES, UMBRELLAS, AND CANES.*

1. **Tents—**
 2. Umbrella type,
 3. Frames—
 4. Folding,
 5. Heaters, lighters, ventilators, and doors,
 6. Pegs, holes, and cover-fastenings.
5. **Canoopies—**
 6. Boat,
 7. Bicycle,
 8. Hanging covers.
9. **Canopy-supports—**
 10. Baby-carriage,
 11. Bicycle,
 12. Body-harness.
16. **Umbrellas, combined—**
 17. Umbrellas and canes,
 18. Imitation-cane case,
 19. Independent-stick.

135.—TENTS, CANOPIES, UMBRELLAS, AND CANES—Continued.

20. **Umbrellas—**
 21. Suspended,
 22. Self opening and closing—
 23. Tensioned rib and stretcher,
 24. Handle-release,
 25. Folding—
 26. Sliding-rib,
 27. Auxiliary frame-brace,
 28. Runners and notches,
 29. Rib and stretcher joints—
 30. T-head and socket,
 31. Ribs and stretchers,
 32. Geats,
 33. Covers, linings and cases—
 34. Covers and linings, detachable,
 35. Sight-openings and ventilators,
 36. Rib-tips, top-protectors, and fasteners,
 37. Retainers—
 38. Runner—
 39. Sliding,
 40. Spring—
 41. Modified-runner,
 42. Stick-hinge locked,
 43. Turning,
 44. Tip,
 45. Drip-cups.
13. **Umbrella-supports.**
45. **Canes and sticks—**
 46. Umbrella-sticks,
 47. Modifications and attachments,
 49. Crutches—
 50. Extensible,
 51. Hand-holds,
 52. Arm-rests,
 53. Tips,
 - 53.1. Stilts—
 - 53.2. Steps,
 54. Tips.

136.—STEAM-ENGINE VALVES.

1. **Balanced-slide—**
 13. Double,
 14. Roller.
2. **Cut-off.**
4. **Governor.**
5. **Piston.**
6. **Puppet.**
12. **Reversing.**
7. **Rotary.**
8. **Slide.**
10. **Steam-actuated.**
11. **Throttle—**
 15. Electric.

137.—WATER DISTRIBUTION.

32. **Check-valves—**
 122. Radiator-vent.
26. **Cocks and faucets—**
 147. Compound—
 150. Reversing—
 151. Reciprocating—
 148. Horizontal,
 149. Rotary—
 138. Butterfly,
 139. Gage-cocks,
 4. Reciprocating valves,
 5. Sliding gates,
 27. Tank,
 35. Thermal—
 92. High-temperature,
 6. Tube-compressors,
 7. Turning plugs,
 93. Water-closet valves.
9. **Cut-offs and spouts.**
101. **Feeders.**
104. **Float-valves.**
11. **Fountains—**
 109. Bubble-cup,
 107. Ornamental—
 108. Illuminated.
121. **Gaskets.**
33. **Hose-patches.**
13. **Hydrants and plugs.**
102. **Indicators.**

137.—WATER DISTRIBUTION—Contd.

14. **Irrigating and sprinkling—**
 63. Carts,
 64. Heads,
 60. Insertors,
 65. Pipes,
 67. Pumps,
 62. Roses and cans,
 61. Shakers,
 66. Systems.
99. **Leak-stoppers—**
 - Patches and plugs.
112. **Mains and pipes—**
 70. Baffles,
 71. Cleaners,
 90. Cushions,
 105. Hose—
 77. Take-up,
 75. Leak-detectors,
 76. Pipes,
 78. Stoppers,
 79. Systems—
 79. House,
 73. Taps,
 72. Thawing,
 91. Thread-protectors,
 100. Tubes,
 69. Valves.
111. **Miscellaneous.**
59. **Nozzle-holders.**
17. **Nozzles—**
 110. Bubble-cup,
 55. Compressible,
 56. Flexible,
 57. Splasher,
 58. Systems,
 97. Tube-cleaners.
88. **Pipe-couplings—**
 94. Ball-and-socket,
 28. Base,
 34. Detachable,
 29. Detachable and flexible,
 98. Permanent,
 123. Pipe and plate—
 124. Clamping—
 125. Barrel-head,
 126. Hook—
 127. Expanding,
 133. Sorew,
 134. Expanded or calked,
 135. Ferrules—
 136. Expanding,
 131. Packed—
 128. Screw-follower,
 129. Penetrating—
 136. Bitted,
 132. Reinforced,
 89. Screw,
 30. Train-pipe, hand-operated,
 95. Valved,
 96. Water-closet—
 115. Inlet,
 119. Outlet.
115. **Rod-packing—**
 118. Diaphragm,
 120. Fluent,
 117. Labyrinth,
 116. Lubricated,
 53. Sectional.
137. **Safety-valves—**
 18. Steam-engine.
20. **Sampling-tubes.**
80. **Siphons.**
81. **Sprayers—**
 86. Cap,
 84. Centrifugal,
 82. Cutters,
 87. Piston,
 83. Reaction,
 21. Rose,
 68. Terminal-cock.
106. **Tanks—**
 103. Automatic—
 68. Siphon.
113. **Traps—**
 114. Float-valve—
 139. Air-port,
 145. Pressure-operated valve—
 146. Air-port.
141. **Valve actuation—**
 142. Periodic—
 143. Rotary,
 144. Speed-controlled—
 141. Periodic—
 142. Rotary,
 143. Pressure-motor,
 144. Systems.
31. **Water-supply hose-holders.**

* See Definitions of Revised Classes.

138.—HYDRAULIC MOTORS.

- 13. For cranes.
- 8. For elevators—
- 14. Valves.
- 15. Varying-power.
- 9. For jacks.
- 10. For presses—
- 16. Valves.
- 17. Varying-power.
- Oscillating—
- 1. Expansible-chamber.
- 22. Pump and motor circuit.
- 2. Reciprocating.
- 19. Rotary—
- 1. Expansible-chamber,
- 20. With pump-supply.
- 21. Tide and wave power plants.

139.—WEAVING.

- 47. Bag-turning machines.
- 5. Carpet-rag loopers.
- 6. Chenille.
- 40. Chenille-machines.
- 50. Cutting double pile fabrics.
- 67. Driving and lay motions.
- 9. Fabrics—
- 70. Elastic,
- 71. Pile,
- 72. Tubular.
- 41. Fringe-machines.
- 10. Fringes.
- 73. Heddle-frames.
- 13. Heddle-machines.
- 14. Heddles.
- 16. Jacquard mechanism.
- 74. Lay structures.
- 75. Lease-rods.
- 18. Looms—
- 1. Bag,
- 2. Basket,
- 3. Buttonhole,
- 7. Circular,
- 84. Cross-weaving,
- 11. Haircloth,
- 12. Hand,
- 15. Irregular,
- 17. Lappet,
- 19. Narrow-ware,
- 20. Needle,
- 23. Pile-fabric—
- 62. Longitudinal wires,
- 64. Pile-wire motions,
- 63. Pile-wires,
- 65. Terry,
- 66. Tufted,
- 32. Slat, cane, and straw,
- 68. Swivel,
- 85. Weft-replenishing,
- 77. Wire.
- 39. Loose-reed motions.
- 42. Pattern-chains.
- 22. Picker-checks.
- 21. Pickers.
- 86. Reed-machines.
- 87. Reeds.
- Shedding—
- 78. Cam and treadle,
- 80. Harness connections,
- 88. Harness-retractors,
- 79. Pattern-controlled.
- 28. Shuttle-boxes.
- 29. Shuttle-checks.
- 30. Shuttle-guards.
- Shuttle-motions—
- 48. Fly,
- 83. Magnetic,
- 69. Pneumatic,
- 49. Positive.
- 43. Shuttle-threaders.
- 27. Shuttles—
- 44. Cop-cell and cover,
- 45. Float-detecting,
- 46. Guides and tensions,
- 89. Spindles and tips,
- 90. Weft-detecting.
- 52. Stopping—
- 51. Protector mechanism,
- Warp stop-motions—
- 91. Electrical,
- 92. Mechanical,
- 54. Weft stop-motions.
- 61. Take-ups and let-offs—
- 56. Beams,
- 57. Escapement let-offs,
- 58. Friction let-offs,
- 81. Guide and whip rolls,
- 59. Let-offs,
- 60. Take-ups.
- 36. Temples.

139.—WEAVING—Continued.

- 82. Treating warp and web.
- 93. Warp-replenishing—
- 94. Drawing,
- 95. Uniting
- 38. Weft-forks.

140.—WIRE-WORKING.*

- 1. Combined machines.
- 2. Miscellaneous.
- 71. Article making or forming—
- 72. Heddles,
- 73. Bale-ties,
- 74. Box-straps,
- 75. Bails,
- 76. Ferrules,
- 77. Hat-wires,
- 78. Conical springs—
- 79. By rolls,
- 80. Hooks—
- 81. Garment,
- 82. Clips—
- 83. Clothes-pins,
- 84. Belt-lacings,
- 85. Cork-fasteners,
- 86. Corkscrews,
- 87. Hair-pins,
- 88. Rings,
- 89. Spring-setting,
- 90. Stays—
- 91. Garment,
- 92. Stud-spirals,
- 92.1. Forms and frames—
- 92.2. Revolvable.
- 93. Applying wire—
- 94. Bottles and corks—
- 95. Rotary bottle,
- 96. Brush-making,
- 97. Card-clothing—
- 98. Making—
- 99. Fillet-feeding,
- 100. Comb-making.
- 3. Fabric-making—
- 4. Rotary machines,
- All-wire—
- 5. Multiple-strand,
- 6. Hexagonal-mesh,
- 7. Quadrangular-mesh—
- 8. Coiled,
- 9. Diamond-mesh,
- 10. Stay-applying—
- 11. Clip-joining,
- 12. Wrapped-loop,
- 13. Short-stay,
- 14. Looped-strand,
- 15. Successively-wrapped stay,
- 16. Portable machines—
- 17. Mesh-making,
- 18. Stay-applying—
- 19. Multiple-strand,
- 20. Clip-joining,
- 21. Wrapped-loop,
- 22. Looped-strand,
- 23. Successively-wrapped stay,
- 24. Edge-strand binding,
- 25. Slat and wire—
- 26. Slat-cutting,
- 27. Magazine,
- 28. Dummy-spacing,
- 29. Movable-carriage,
- 30. Strand-twisting—
- 31. Embedding,
- 32. Beaters,
- 33. Spreaders,
- 34. Strand-coiling,
- 35. Weavers,
- 36. Twister-heads,
- 37. Portable machines—
- 38. Magazine,
- 39. Strand-twisters—
- 40. Slat-adjustment,
- 41. Plumb-adjustment,
- 42. Beaters,
- 43. Vertically-adjustable,
- 44. Eccentric type,
- 45. Wire-crossers—
- 46. Oscillatory,
- 47. Strand-coilers,
- 48. Weavers,
- 49. Tie-wire appliers,
- 50. Spacers,
- 51. Clamps,
- 52. Implements—
- 53. Magazine—
- 54. Revolvable-head,
- 55. Clip-affixing,
- 56. Slat-attaching—
- 57. Tie-wire appliers.

140.—WIRE-WORKING—Continued.

- 58. Barbing—
- 59. Barb-wire feeding—
- 60. Multiple-strand,
- 61. Four-point barbs—
- 62. Strand-crimping,
- 63. Rotary coilers,
- 64. Strand-crimping,
- 65. Rotary coilers,
- 66. Sheet-metal,
- 67. Separate barbs,
- 68. Pickets,
- 69. Implements—
- 70. Revolvable-head.
- 101. Knotting.
- 102. Loop-forming—
- 102.5. Implements,
- 103. Coil-springs.
- 104. Eye-forming—
- 105. Crimping—
- 106. Implements.
- 107. Fabrics, working—
- 108. Stretchers—
- 109. Frame-attaching—
- 110. Bed-bottoms.
- 111. Joining wire—
- 112. Electric welding,
- 113. Machines—
- 114. Interlocking eyes, making,
- 115. Revolvable-head,
- 116. Tying-dies,
- 117. Implements—
- 118. Twisters—
- 119. Revolvable-head,
- 120. Spread-wire,
- 121. Plier type,
- 122. Revolvable-head.
- 123. Implements—
- 123.5. Stretchers—
- 123.6. Cutting feature,
- 124. Coiling.
- 125. Wire-feeding—
- 126. Automatic-stop,
- 127. Drum—
- 128. Tangential-contact,
- 129. Intermittent—
- 130. Oscillating-clamp,
- 131. Recessed-roller,
- 132. Short lengths.
- 133. Tension devices—
- 134. Equalizers,
- 135. Friction-clamp,
- 136. Friction-roller,
- 137. Tortuous-course—
- 138. Adjustable.
- 139. Wire cutting and straightening—
- 140. Predetermined lengths.
- 141. Wire-cutting—
- 142. Dies,
- 143. Oscillating apertured cutter,
- 144. Pivoted-cutter,
- 145. Reciprocating-cutter,
- 146. Rotary-cutter.
- 147. Wire-straightening—
- 148. Rolls.
- 149. Wire-twisting.

141.—WASHING APPARATUS.

- 6. Barrel-washers.
- 7. Bottle and can washers.
- 9. Dish-cleaners.
- 8. Dish cleaners and drainers, combined.
- 10. Dish-cloth holders.
- 11. Dish-drainers.
- 12. Miscellaneous fiber and pulp washers.
- 13. Roll-cleaners.
- 3. Tumbler-washers.
- 5. Wool-washing machines.

142.—WOOD-TURNING.*

- 1. Miscellaneous.
- Polygonal-section—
- 2. Annular work-holders—
- 52. Chucks.
- Pattern-section—
- 3. Many-spindle lathes,
- Oval-form—
- 16. Guided chucks—
- 51. Counterpoises,

* See Definitions of Revised Classes.

142.—WOOD-TURNING—Continued.

- Pattern-section—Continued.**
- Copying—
- Cutter—
7. Laterally and longitudinally movable,
- Rotary—
11. Fixed bearings,
13. Laterally-movable,
15. Longitudinally-movable,
- Clamped work—
- Cutter, chisel—
8. Laterally and longitudinally movable,
- Cam-controlled—
- Cutter—
6. Laterally and longitudinally movable,
- Rotary—
10. Fixed bearings,
12. Laterally-movable,
14. Longitudinally-movable,
- Cutter—
9. Rotary.
- Circular-section—**
4. Many-spindle lathes—
5. Automatic spindle-feed,
- Spiral-grooving—
23. Hollow cutter-head,
- Cutter—
26. Rotary—
24. Pattern-guide,
25. Hollow-mandrel,
33. Rack-and-pinion feed,
34. Roller-feed,
35. Chisel,
17. Automatic spindle-lathes—
18. Endless-feed—
19. Disk,
20. Chute-feed,
- Clamped-work—
- Hollow cutter-head—
45. End-turning,
- Cutter, chisel—
46. Longitudinally-movable,
32. Hollow cutter-head—
31. Cutter chisel—
27. Radially-movable, pattern-guide—
28. Rotary,
- Pattern—
30. Radially-movable,
29. Radially-movable,
- Cutters—
- Chisels, plain and pattern—
21. Pattern-guide,
- Rotary and chisel—
22. Pattern,
- Cutter—
- Slicing—
36. Longitudinally-movable,
40. Rotary—
37. Pattern-guide,
41. Pattern,
42. Chisel—
38. Pattern-guide—
39. Rotary,
43. Pattern—
44. Disk,
47. Carriage-feed.
48. Tool-rests and work-supports.
49. Tool-rests.
50. Steady-rests—
- Yielding,
53. Lathe-centers.
54. Hollow mandrels.
55. Attachments.
56. Turning-tools.
- Work-holders—
57. Socket.

143.—WOOD-SAWING.*

1. Combination-machines.
2. Hoop-pole machines—
3. Band-saw.
8. Single-machines—
9. Reciprocating-saw,
10. Belt-feed,
11. Dog-and-step feed,
12. Roller-feed,
13. Tilting-gage,
14. Tilting-table—
15. Rotary-carriage.
4. Resawing-machines—
5. Band-saw.
6. Mitering-machines—
7. Reciprocating-saw.

143.—WOOD-SAWING—Continued.

16. Arc-saw machines.
17. Band-saw machines—
18. Centered-log,
19. Horizontal-saw,
20. Inclined,
21. Multiple idlers,
22. Multiple-saw,
23. Retarded-idler,
24. Tilting-frame,
25. Reciprocating-carriage,
26. Special-feed,
27. Automatic tension-regulators,
28. Catchers,
29. Pulley cleaners and lubricators,
30. Pulleys,
31. Saw-lead adjustments.
32. Chain-saw machines.
33. Circular-saw machines—
- Pile-cutting,
35. Adjustable-saw—
36. Angular,
37. Lateral,
38. Angular—
39. Centered-log,
40. Auxiliary-saw,
41. Drop-saw,
42. Knife-disk,
43. Portable,
44. Rim-driven,
45. Successive,
46. Swinging-saw,
47. Traveling-saw,
48. Special-feed,
49. Chain-feed,
50. Lathe-feed,
51. Pusher-feed,
52. Reciprocating-carriage—
- Automatic-feed,
54. Mechanically-operated,
55. Roller-feed—
- Gang,
57. Rotary-carriage,
58. Swinging-carriage,
59. Tilting work-support.
- Reciprocating-saw machines—**
61. Drag—
62. Automatic-return,
63. Crank,
64. Lever,
65. Lever-and-bow,
66. Lever and gears,
67. Lever and lazy-tongs,
68. Motor,
69. Oscillatory,
70. Scroll—
71. Frame,
72. Free-end saw,
73. Spring-return,
74. Swivel-saw,
75. Special-cut—
- Pattern-guide,
77. Pivoted work-holder,
78. Tilting saw-frame,
79. Laterally-adjustable arm,
80. Piston-connected,
81. Vibrated-saw—
- Lever-driven,
83. Pivoted-guides,
84. Roller-feed.
85. Tubular-saw machines.
- Sawmill-carriages—**
- Friction-feed—
106. Disk,
107. Motor-feed,
108. Offsetting—
109. Draft-operated,
110. Friction-operated,
111. Lever-operated,
112. Track-operated.
113. **Sawmill set-works—**
114. Automatic,
115. Direct-actuated,
116. End dogs,
117. Fluid-operated,
118. Pawl-and-rack,
119. Power-operated,
120. Spring-retracted,
121. Supplemental-support,
122. Wedge,
123. Appliances.
- Sawmill-dogs—**
126. Lever,
127. Lever-and-cam,
128. Lever and cooperating gears,
129. Lever, gear and rack,
130. Lever, pawl and rack,
131. Screw.
92. **Log-transfers—**
93. Pusher-blocks,
94. Trough-and-kicker.
95. **Log turners and deck blocks.**
96. **Log deck-blocks.**

143.—WOOD-SAWING—Continued.

97. **Log-turners—**
- Bar-and-chain,
99. Bar and inclined pistons,
100. Bar and parallel pistons,
101. Bar-and-piston,
102. Endless,
103. Hook,
104. Hook-and-chain.
- Saw-tables.**
- Saws—**
- Bent,
135. Chain,
136. Dished,
137. Expansion-aperture,
138. Gumming-aperture,
139. Sectional,
140. Smoothing.
- Saw-teeth—**
- Cross-cut,
143. Planer,
144. Reversible.
- Saw-teeth, fastenings—**
- Bridge-plate,
147. Cap—
- Separable-bit,
149. Key,
150. Key and locking-plate,
151. Locking-plate,
152. Spring-latch,
153. Wedge,
154. Wedge and locking-plate.
- Saw-hanging—**
- Circular-saw,
156. Reciprocating-saw.
- Sawing-machine appliances.**
- Saw cleaners and oilers.**
- Saw-guards.**
- Saw-guides—**
- Back-disk,
162. Back-roller,
163. Drag,
164. Oilers,
165. Pivoted-arm,
166. Sliding-arm,
167. Work-engaging.
- Saw-table gages—**
- Angular-adjustment—
- Vertical,
171. Curve-cutting,
173. Roller,
174. Sliding—
- Link,
176. Rack-and-pinion.
- Miter-boxes—**
- Adjustable—
88. Biplane,
89. Swinging saw-guide,
90. Swinging work-guide.
91. **Sawbucks.**

144.—WOODWORKING.*

50. **Match-making—**
51. Wax and paper,
52. Cutting, framing, and dipping—
53. Die-punches,
54. Cutting and framing—
55. Die-punches—
- Fixed,
57. Cutting and coiling,
58. Framing and dipping,
59. Coiling,
60. Dipping,
61. Box-filling,
- Dipping-frames—
62. Emptying,
63. Filling—
64. Hopper-feed,
65. Dipping-frames,
66. Splint-feed mechanism.
207. **Osier-peelers.**
- Rossing bark.**
- Wood-ornamenting—**
- Embossing—
273. Die-rollers,
274. Heat-applying,
275. Graining,
276. Articles,
277. Processes.
2. **Special-work machines—**
- Combined—
5. Blind and sash cutting—
6. Relishing,
7. Box-blank,
8. Chair-round tenoning and sawing,
9. Clothes-pin,

*See Definitions of Revised Classes.

144.—WOODWORKING—Continued.

- Special-work machines—Con.**
Combined—Continued.
 10. Conveyor-flight,
 11. Handle,
 12. Pin,
 13. Shingle,
 14. Spool,
 15. Wheel tenoning and boring,
 16. Wheel-hub,
 17. Wheel-felly boring and saw-
 ing,
 18. Wheel-spoke tenoning and
 sawing,
 19. Window-stile-pocket cut-
 ting,
 4. Circular-section,
 Single or combined—
 20. Disk cutting and boring,
 21. Disk-cutting—
 22. Blank sawing, feeding, and
 punching,
 23. Rotary tubular-cutter,
 24. Sweep-cutter,
 25. Box-hooping,
 26. Comb-teeth cutting,
 27. Hinge-seat cutting,
 28. Pencil-wood making,
 29. Piano-hammer felting,
 30. Pin-pointing,
 31. Pin-setting,
 32. Screw-driving,
 33. Tray-making,
 34. Tree-felling.
 1. **Combined machines—**
 35. Boring and sawing,
 36. Planing and matching,
 37. Planing, matching, and divid-
 ing,
 38. Planing and polishing,
 39. Planing and sawing,
 40. Riving and shaving,
 41. Shaping and dividing,
 42. Slicing and scoring,
 43. Slicing and shaving—
 44. Converging knives,
 45. Tenoning and boring,
 46. Turning and boring,
 47. Turning and polishing,
 48. Turning and sawing.
 49. **Miscellaneous single-operation**
machines.
Mortising—
 67. Multiple-chisel—
 68. Portable,
 69. Auger-cutter—
 70. Portable,
 71. Automatic step-feed,
 72. Chain-cutter—
 73. Portable,
 Chisel—
 74. Boring and mortising,
 75. Chisel—
 76. Portable,
 77. Chisel-reversers,
 78. Hollow-chisel and bit—
 79. Portable,
 80. Oscillating-chisel—
 81. Portable,
 82. Rotary-cutter—
 83. Portable,
 84. Work-supports.
Dovetailing—
 85. Consecutive cutters,
 86. Frusto-conical bit,
 88. Inclined-chisel,
 89. Inclined rotary-disk.
Matching—
 91. End.
Boring—
 92. Special-work,
 93. Brush—
 94. Multiple-bit,
 95. Rotating work-holder,
 96. Tilting work-holder,
 97. Wheel-hub—
 Axial—
 98. Stationary bit-stock,
 99. Stationary work—
 100. Inclined bit-stock,
 101. Opposite rotary bit-
 stocks,
 102. Wheel-felly,
 103. Swinging,
 Portable—
 104. Hand—
 105. Overhead-work,
 106. Angularly-adjustable,
 Long-work—
 107. Automatic step-feed,
 108. Hand-operated step-feed,
 109. Traveling-tool,

144.—WOODWORKING—Continued.

- Boring—Continued.**
 110. Multiple—
 111. Double-ended bit-stock,
 112. Relative lateral adjustment,
 113. Hollow-auger.
Planers—
 114. Miscellaneous,
 115. Scrapers,
 Beveling—
 124. Lateral,
 Longitudinal—
 125. Inclined work-pocket,
 126. Shifting-cutter,
 127. Shifting work-support,
 Rotary-cutter—
 Cylinder—
 116. Double surfacers,
 117. Cylinder—
 131. Bearings,
 118. Disk—
 119. Traveling,
 120. Stationary-cutter—
 132. Bit adjustments,
 121. Reciprocating-cutter—
 122. Lateral,
 123. Endless-cutter carrier,
 128. Endless-bed,
 129. Bed adjustments,
 130. Cutter adjustments.
Gaining.
Shaping—
 134. Miscellaneous,
 135. Box-trimming,
 136. Grooving,
 Pattern—
 137. Miscellaneous,
 138. Polygonal forms, indexed
 work,
 139. Rotating-table, shifting
 cutter,
 140. Gear-guided cutter,
 141. Crank-guided cutter,
 Cam—
 142. Cutter-guiding,
 143. Work-guiding,
 Templet—
 144. Cutter-guiding—
 144.5. Templets,
 Work-guiding,
 146. Oscillating-knife,
 147. Reciprocating-knife,
 148. Reversible-cutter,
 149. Pattern-knife, swinging frame,
 150. Rotary-cutter, end-thrust,
 151. Universally-jointed cutter-
 shaft,
 152. Curved-work guide,
 153. Curved-bar work-support,
 154. Rotary work-carrier.
Shaving—
 155. Fixed-knife—
 156. Circular knife-block,
 157. Drum-feed,
 158. Roller-feed,
 159. Knife-pair—
 160. Gripper,
 161. Roller-feed.
Slicers—
 162. Reslicers,
 Strip-cutting—
 164. Converging knives—
 165. Lathe-feed,
 166. Lathe-feed,
 167. Arc-cut,
 Beveling—
 168. Alternate end-feed,
 169. Shifting, knife-guide,
 170. Tilting-gage,
 171. Tilting-table,
 172. Cylinder—
 173. Grooving,
 174. Radial-knife,
 175. Fixed-knife,
 176. Rotary-disk,
 Stay-log—
 177. Oscillating,
 178. Reciprocating,
 179. Screw-feed,
 180. Hopper-feed,
 181. Roller-feed.
Riving—
 182. Beveling,
 183. Fixed-knife.
Slivering—
 185. Scoring-plane—
 187. Endless-belt,
 188. Rotary,
 189. Gang-saw,
 190. Plunger and fixed-knife,
 191. Receiving and handling de-
 vices.

144.—WOODWORKING—Continued.

- Splitting and bundling.**
 192. Self-feeding—
 193. Roller-and-belt.
Punching-cutters—
 195. Fixed-die.
Tenoning—
 198. Blind-slat—
 199. Rotary cutters,
 200. Rotary gaining-cutters,
 201. Chisel-pair,
 202. Rotary gaining-cutters—
 203. Multiple-tenon.
Tenon-turning—
 205. Wheel-spoke.
Veneer-lathes—
 206. Convertible,
 210. Inclined knives,
 211. Knives and knife-blocks,
 212. Presser bars and rolls,
 213. Stay-logs,
 214. Strip-cutting attachments.
Miter-cutters—
 215. Angle-knife.
Cutters—
 Rotary—
 218. Miscellaneous,
 219. End-thrust,
 220. Frusto-conical,
 Cylindrical—
 221. Spiral-bit,
 230. Slotted bit-seat,
 Saw—
 Double—
 222. Intermediate-cutter,
 238. Wobble,
 239. Distorted,
 Single—
 223. Side-cutter,
 Polygonal—
 224. T-slot bit-clamp,
 225. Plane bit-seat,
 226. Convex bit-seat,
 227. Concave bit-seat,
 Radial arms—
 228. Plane bit-seat,
 229. Slotted bit-seat,
 Disk—
 Multiple clamping-disks—
 231. Tangential-bit,
 232. Pivoted-bit,
 233. Shank-bit,
 234. Eccentric segmental bit,
 Side-attached bit—
 235. Edge-cutting,
 Multiple—
 236. Pattern,
 Gang,
 237. Solid,
 240. Bits.
Cutter-guards.
Cutter-hoods and dust-con-
veyers.
Feed and presser mechan-
isms—
 242. Miscellaneous,
 243. Presser-bars and chip-break-
 ers—
 244. Sectional,
 245. Blank-feeders,
 Rolls—
 Feed—
 246. Miscellaneous,
 247. Spring-pressed,
 248. Weighted,
 249. Presser,
 250. Sectional.
Work-guides.
Wood-bending—
 254. Bending and drying,
 255. Bending-rollers,
 256. Presses—
 257. End compressors,
 258. Hoop-gaging,
 Former—
 Fixed—
 259. Collapsible,
 260. End-thrust,
 261. Radial arm and roller
 262. Strap-and-windlass,
 263. Strap-and-lever,
 264. Strap-and-screw,
 265. Strap,
 266. Pivotal—
 267. Coiling,
 268. Clamps,
 269. Bends,
 270. Steaming.
Machine work-clamps.
Glue-applying and pressing
apparatus.

* See Definitions of Revised Classes.

144.—WOODWORKING—Continued.

- 280. Glue-applying apparatus.
- 281. Veneer-presses—
- 282. Roller,
- 283. Molding.
- 284. **Cork and bung presses.**
- 285. **Work-benches and tool-chests combined.**
- 286. **Work-benches—**
- 287. Adjustable stock-rest.
- 288. **Work-holding stands.**
- 289. **Clamps—**
- 296. Door-supporting,
- 291. Rectangular-framework,
- 294. Box-joint,
- 292. Miter—
- 293. Multiple-joint,
- 295. Single-joint,
- 296. End and partition,
- 290. Bench,
- 297. Portable—
- 298. Ship-planking,
- 299. Extensible-beam,
- 300. Parallel-screw—
- 301. Quick-action,
- 302. Pivoted-lever,
- 303. Straight-beam adjustable-jaw,
- 304. U-beam—
- 305. Quick-action.
- 306. **Bench-dogs—**
- 307. Clamping,
- 308. Removable.
- 309. **Processes.**

145.—WOODWORKING-TOOLS.*

- 1. **Miscellaneous.**
- 2. **Axes—**
- 3. Detachable-bit.
- 5. **Bench-planes.**
- 6. Miscellaneous,
- 7. Chamfering,
- 8. Core-box,
- 9. Strip-cutters,
- 10. Flexible-face,
- 11. Irregular-work,
- 12. Bit adjustments—
- 13. Angular,
- 14. Longitudinal—
- 15. Pivoted-lever and screw,
- 16. Screw,
- 17. Adjustable mouthpieces,
- 18. Bit-clamps,
- 19. Bits,
- 20. Lubricating attachments,
- 21. Handle attachments,
- 22. Gage attachments.
- 23. **Spokeshaves—**
- 24. Adjustable mouthpieces,
- 25. Beading-bits,
- 26. Gage.
- 27. **Drawing-shaves—**
- 28. Single-handle.
- 29. **Scraping-planes.**
- 30. **Scrapers.**
- 31. **Drawing-knives.**
- 32. **Chisels—**
- 33. Compound,
- 34. Gage.
- 35. **Handsaws—**
- 36. Truss-frame,
- 37. U-frame—
- 38. Extensible
- 39. Attachments.
- 40. **Cue-trimmers.**
- 41. **Tenon-cutters.**
- 42. **Reamers.**
- 43. **Augers—**
- 44. Miscellaneous
- 45. Square-hole cutters,
- 46. Expanding, reverse-taper,
- 47. Secondary cutters,
- 48. Detachable cutters,
- 49. Adjustable cutting-lip,
- 50. Countersinks,
- 51. Sweeps,
- 52. Twist,
- 53. Pod,
- 54. Tubular—
- 55. Core-cutters.
- 56. Gage attachments.
- 57. **Box-openers.**
- 58. **Cant-dogs.**
- 59. **Hammers—**
- 60. Nail-placers.
- 61. **Mallets.**
- 62. **Nail-sets.**

145.—WOODWORKING-TOOLS—Contd.

- 50. **Screw-drivers—**
- 51. Shell-guide—
- 52. Spring-operated,
- 53. Holding attachments—
- 54. Side-gripping jaws.
- 55. **Spiral-tool drivers—**
- 56. Forward-pressure—
- 57. Reversible-rotation.
- 58. **Bit-frames.**
- 59. **Bit-stocks—**
- 60. Miscellaneous,
- 61. Straight—
- 62. Side-driving shaft,
- 63. U-crank arm—
- 64. Speeding-gear,
- 65. Angular bit-shaft,
- 66. Ratchet—
- 67. Straight-crank arm,
- 68. Pivoted pawls,
- 69. Sliding pawls—
- 70. Changeable-face.
- 71. **Saw-handles—**
- 72. Miscellaneous,
- 73. Double-grip,
- 74. Spindle—
- 75. Side-clamping plates,
- 76. Transverse-socket and tightening-bar,
- 77. Longitudinal-socket and tightening-bar,
- 78. Scroll.
- 79. **Handles—**
- 80. Magazine—
- 81. Registering chambers,
- 82. Hollow—
- 83. Retractile-tool,
- 84. Cross-bar—
- 85. Ratchet,
- 86. Ratchet-and-pawl,
- 87. Ratchet-clutch,
- 88. Shield attachments,
- 89. Fastenings—
- 90. End-cap,
- 91. Wedge—
- 92. Screw-expanded,
- 93. Socket-fastenings—
- 94. Bevel-closing—
- 95. Axial-screw—
- 96. Spring-retracted jaws,
- 97. Rotating-ring—
- 98. Spring-retracted jaws,
- 99. Screw-ring—
- 100. Spring-retracted jaws,
- 101. Screw-cone,
- 102. Screw-cap—
- 103. Spring-retracted jaws,
- 104. Sliding-ring—
- 105. Spring-retracted jaws,
- 106. Cam-closing—
- 107. Spring-retracted jaws,
- 108. Lever-closing,
- 109. Transverse-screw clamp—
- 110. Integral-socket,
- 111. Split-socket,
- 112. Shouldered-tang and cap,
- 113. Shouldered-tang and side-socket,
- 114. Pivoted-latch,
- 115. Sliding-latch,
- 116. Threaded-tang,
- 117. Friction-grip.
- 118. **Guides.**

146.—VEGETABLE CUTTERS AND CRUSHERS.

- 8. **Apple-parers.**
- 16. **Bunching-machines.**
- 15. **Crushers and graters—**
- 16. Reciprocating,
- 17. Rotary.
- 18. **Cutters—**
- 19. Bread,
- 20. Reciprocating,
- 21. Rotary.
- 22. **Nutcrackers.**
- 23. **Peelers and washers.**
- 24. **Pitters, corers, and eye-cutters.**
- 25. **Seeders.**
- 26. **Straw-cutters—**
- 27. Cutter and bed—
- 28. Reciprocating-knife,
- 29. Rotary-cylinder,
- 30. Cylinder and concave,
- 31. Double-cylinder,
- 32. Feeders,

146.—VEGETABLE CUTTERS AND CRUSHERS—Continued.**Straw-cutters—Continued.**

- 21. Pivoted-knife—
- 22. Rake-feed,
- 23. Roller-feed,
- 24. Without feed,
- 25. Rotary-wheel—
- 26. Follower-feed,
- 27. Rake-feed,
- 28. Roller-feed,
- 29. Without feed,
- 30. Single-cylinder—
- 31. Rake-feed,
- 32. Roller-feed,
- 33. Without feed.

147.—COOPERING.*

- 1. **Barrel-making machines.**
- 2. **Heading-machines.**
- 3. **Setting-up machines.**
- 4. **Setting-up formers.**
- 5. **Barrel-compressing machines—**
- 6. Cone.
- 7. **Truss-hoops.**
- 8. **Hoop-drivers—**
- 9. Miscellaneous,
- 10. Cam-operated,
- 11. Hydraulic and steam,
- 12. Lever-operated,
- 13. Screw-operated,
- 14. Weight.
- 15. **Crozing and chamfering barrels—**
- 16. Clamped-barrel—
- 17. Rotary cutter-head,
- 18. Rotating-barrel—
- 19. Expansible cutter-head,
- 20. Rotary cutter-head,
- 21. Sliding-tool,
- 22. Swinging-tool,
- 23. Hand-crozes.
- 24. **Crozing staves—**
- 25. Miscellaneous,
- 26. Rotary-cutter—
- 27. Endless stave-carriage,
- 28. Sliding stave-carriage,
- 29. Swinging stave-carriage,
- 30. Swinging,
- 31. Sliding-knife.
- 32. **Jointing staves—**
- 33. Miscellaneous,
- 34. Inclined molding-heads—
- 35. Vertically-movable bed,
- 36. Rotary-cutter—
- 37. Pattern-feed,
- 38. Converging saws,
- 39. Disk cutter-head,
- 40. Single-saw—
- 41. Sliding-carriage,
- 42. Tilting-carriage,
- 43. Sliding-knife,
- 44. Sliding-plane,
- 45. Traveling saw—
- 46. Curved-guide,
- 47. Longitudinal cutter-cylinder,
- 48. **Shaping staves.**
- 49. **Barrel-head making—**
- 50. Miscellaneous,
- 51. Fixed-chuck—
- 52. Rotary scribing-tool,
- 53. Rotary-saw,
- 54. Rotary-chuck—
- 55. Chisel-cutter,
- 56. Double molding-cutter,
- 57. Hand-scribers.
- 58. **Chamfering-tools.**
- 59. **Hoop-machines—**
- 60. Miscellaneous,
- 61. Racking,
- 62. Lapping and pointing,
- 63. Lock-cutting.
- 64. **Basket forming and nailing.**
- 65. **Basket-forming.**

* See Definitions of Revised Classes.

148.—ANNEALING AND TEMPERING.

21. Annealing processes—
22. Drawing temper,
23. Gas,
24. Toughening.
40. Cementation and case-hardening—
25. Compounds,
26. Gaseous,
27. Liquid.
8. Decarbonizing.
37. Hardening processes—
39. Molten-metal,
38. Solutions.
41. Iron oxids.
42. Pickling and swilling.
- Tempering and annealing—
10. Applications of electricity,
12. Metals other than iron.

149.—HIDES, SKINS, AND LEATHER.

8. Apparatus—
22. Coloring and polishing,
19. Endless belts,
16. Helical tools,
20. Putting out and stretching—
21. Stretching-frames,
17. Reciprocating tools—
18. Rocking frames,
23. Rolling and embossing,
14. Rotary cylinders,
15. Rotating tools,
12. Tables and frames,
13. Tanners' tools,
9. Tanning,
11. Tumbling-drums,
10. Vats.
- Processes and compositions—
3. Bating,
7. Coloring and polishing,
6. Currying,
2. Depilating,
1. Preserving,
4. Tanning,
5. Tawing.

150.—CLOTH, LEATHER, AND RUBBER RECEPTACLES.***0.5. Miscellaneous.****Portemonnaies and pocket-books—**

35. Combination,
36. Puzzle and secret compartment,
37. Coin-holding,
38. Bill-holding,
39. Card and ticket cases,
40. Key-pouches,
41. Stamp-books,
34. Article-holding,
28. Body construction—
29. U-frame,
30. Gussets and partitions,
31. Stays and braces,
32. Blanks,
33. Handles,
42. Closures—
43. Band or strap,
44. Collapsible walls,
45. Folding-frame,
46. Hinged-lid,
47. Safety attachments.
13. Mail-bags—
14. Multiple pockets,
15. Closures—
16. Pivoted jaws,
17. Collapsible-frame—
18. Quadrangular,
19. Folding-flap,
20. Manifold, locking-tongue,
21. Folding-flap—
22. Corner-fold,
23. Fasteners—
24. Tongue and staple,
25. Stud and keyhole-slot,
26. Pivoted catches, sliding-bar,
27. Turn-bolt with catches.

1. Bags—

2. Harvesting,
3. Closures—
4. Pivoted jaws,
5. Parallel bars,
6. Folding bar and clamp,
7. Folding-flap,

150.—CLOTH, LEATHER, AND RUBBER RECEPTACLES—Contd.**Bags—Continued.**

- Closures—Continued.
8. Mouthpiece, cap, or stopper,
9. Seam-valve,
10. Expanding-spring,
11. Shifring-cords,
12. Handles.
48. Baskets and buckets—
49. Folding-frame,
50. Rigid-bottom,
51. Rigid-frame.
52. Covers and cases—
53. Collar and cuff,
54. Tire and wire coil.

151.—NUT AND BOLT LOCKS.*

1. Flowing metal.
2. Coupled nut and bolt—
27. Top-stop—
28. Positive-lock—
29. Side,
30. Thread-gripper,
14. Thread-lock—
15. Superposed nuts—
16. Oppositely-threaded—
17. Key or pawl locked,
18. Side-locked,
19. Cam or cone grip,
20. Canted-nut,
21. Distorted-nut,
22. Distorted-thread,
23. Longitudinal-key,
24. Radial key or gib,
25. Side-clutch,
26. Tangential-key,
3. Flexible-washer,
4. Flexible-key,
5. Cross-key—
6. Spring-seated,
7. Elastic gripping action,
8. Longitudinal-key,
- Pawl-and-ratchet—
9. Bolt-carried pawl,
10. Nut-carried pawl—
11. Flexible,
12. Pivoted,
31. Washer-carried pawl,
33. Wedged slotted bolt.
32. Locked-bolt.
33. Locked-nut—
34. Base-clutch—
35. Blitting-tooth—
36. Coiled-washer,
37. Nut-carried,
38. Friction,
39. Pawl-and-ratchet—
40. Nut-carried pawl,
41. Yielding interlocking washer,
42. Distorted,
43. Gravity nut or washer,
44. Side-lock—
45. Rotatable-washer—
46. Bent-tongue locked,
47. Pawl-locked,
48. Pawl-and-ratchet,
49. Flexible—
50. Automatic—
51. Coiled-washer,
52. Spring-tongued washer-plate,
53. Inelastic washer-tongue,
54. Longitudinal—
55. Nut-held—
56. Reversed-nut,
57. Side-pin,
58. Spike-held,
59. Swinging,
60. Washer-tongue held,
61. Transversely-sliding—
62. Key, plate, or bar—
63. Nut-held,
64. Sliding-washer,
65. Transversely-swinging,
66. Transverse base-locking key.

152.—RESILIENT TIRES AND WHEELS.

28. Spring-wheels—
49. Combined curved spring and rigid spoke,
50. Curved spring-spokes—
51. Positive braces, guides, or driving connections,
39. Cushioned inner hub—
44. Annular guide-flange—
45. Positive driving connection,
40. Pneumatic-tube—
41. Annular guide-flange—
42. Positive driving connection,
43. Rubber-cushion,
32. Cushioned inner rim—
37. Annular guide-flange—
38. Positive driving connection,
33. Pneumatic-tube—
34. Annular guide-flange—
35. Positive driving connection,
36. Rubber-cushion,
54. Cushioned lateral thrust,
29. Deformable outer rim—
31. Independent rim-segments, spring-pressed plungers,
30. Pivoted or linked rim-segments,
52. Helical spring-spokes,
47. Pivoted, telescoping, spring-carrying spokes,
46. Pneumatic-tube,
48. Radial, fixed hub cylinders or spokes, spring-pressed plungers,
53. Radial or tangential spokes, fixed rim sockets and springs.

Tires—

1. Cushion—
2. Antislipping,
3. Armored—
4. Antislipping,
6. Fastening devices—
7. Sectional channels,
5. Inclosed cores,
8. Metallic springs,
9. Sectional,
10. Cushion and pneumatic combined,
11. Inflating—
12. Valves,
13. Pneumatic—
14. Antislipping,
- Armored—
16. Antislipping,
17. Externally,
18. Internally,
19. Divided treads,
20. Fastening devices—
21. Sectional channels,
22. Multiple chambers,
23. Repairing—
24. Bandages,
26. Plugs and patches,
27. Tools.

153.—METAL-BENDING.*

1. Binding and covering—
- 1.5. Shoe-lace tipping.
- Pipe expanders and flangers—
79. Non-traveling—
80. Segmental-expander,
- 80.5. Traveling—
81. Rotary—
82. Wedge-feed.
2. Combined operations—
3. Angular bending and curving—
4. Pivoted bender—
5. Changeable-former,
6. Angular bending and twisting,
7. Curving and corrugating—
8. Hammer-action.
9. Beading and crimping rolls.
10. Miscellaneous.
11. Angular—
12. Combined reciprocating bender and pivoted side-shaper,
13. Combined reciprocating bender and sliding side-shaper,
15. Pivoted-bender—
16. Bed-clamped work—
17. Multiple-side—
18. Inclosed forms,
19. Rotary,
20. Bender-attached work,

* See Definitions of Revised Classes.

153.—METAL BENDING—Continued.

- Angular—Continued.**
 21. Reciprocating-bender—
 22. Inclosed forms,
 23. Pan-shaped dies,
 24. Screw-operated,
 25. Bed-clamped work—
 26. Rotary,
 27. Rotary bending-head,
 28. Roll—
 29. Flanging—
 30. Tinner's rolls,
 31. Pivoted-table.
Curving or straightening—
 32. Combined reciprocating bender
 and pivoted side-shaper,
 34. Combined reciprocating bender
 and sliding side-shaper,
 35. Stretching,
 36. Traveling flexible core,
 37. Flier-frame,
 38. Three-point jacks,
 39. Pivoted-bender—
 40. Bender-attached work—
 41. Beading and curving,
 42. Beading or tube-forming,
 43. Traveling-bed,
 44. Opposing jaws,
 45. Sweep-arm—
 46. Stationary clamped work,
 47. Variable die-face,
 48. Reciprocating-bender—
 49. Inclosed forms,
 50. Automatic bend-detector,
 51. Variable die-face,
 52. Laterally-traveling,
 53. Screw-operated,
 54. Roll—
 55. Hoop,
 56. Angle-bar—
 57. Sectional rolls,
 58. Barrel-shaped,
 59. Edge-curling,
 60. Skewed,
 61. Inclosed-work releasing,
 62. Boiler-formers,
 63. Flexible cores.
Coiling—
 64.5. Flat-wire, edge-winding,
 65. Shunt-guide,
 66. Spiral-die,
 67. Traveling guide or mandrel.
Corrugating—
 69. Tubes—
 69.5. Elbow-bending,
 70. Longitudinal-bend,
 71. Spiral-bend—
 72. Roll,
 73. Transverse-bend,
 74. Bed and cylinder,
 75. Pivoted-bender,
 76. Reciprocating-bender,
 77. Roll.
 78. **Twisting.**

**154.—LAMINATED FABRIC AND AN-
ALOGOUS MANUFACTURES.***

1. Miscellaneous apparatus.
2. Miscellaneous processes.
3. **Belt-making—**
 4. Processes.
5. **Hose-making—**
 6. Axial-feed,
 7. Convolute-wind,
 8. Processes.
9. **Tire-making—**
 10. Fabric-structure building,
 11. Thread-structure building,
 12. Processes—
 13. Filling feature,
 14. Pneumatic—
 15. Punature-closing type.
16. **Ball-making—**
 17. Golf-ball—
 18. Filling feature,
 19. Winding feature.
20. **Linoleum-making—**
 21. Inlaid—
 22. Pattern-forming—
 23. From plastic masses,
 24. From sheets,
 25. Processes—
 26. Inlaid.
 27. **Heat-insulating-covering
 making—**
 28. Processes.

**154.—LAMINATED FABRIC AND AN-
ALOGOUS MANUFACTURES—
Continued.**

29. **Yielding-fabric making—**
 30. Corrugating and indenting—
 31. Facing feature,
 32. Facing corrugated and in-
 dented structure,
 33. Processes.
34. **Fabric parchmentizing and
 uniting.**
 35. **Fabric coating and uniting—**
 36. Sheet and web,
 37. Webs—
 38. Roofing—
 39. Sanding feature,
 40. Processes.
41. **Affixing fabric coverings.**
 42. **Adhering seam-forming.**
 43. **Miscellaneous structure.**
 43.5. **Roll structure.**
 44. **Heat-insulating coverings—**
 45. Air-spaced.
 45.5. **Packing.**
 45.9. **Composite boards**
 46. **Fabrics—**
 46.5. Matrix-stock,
 47. Decorative,
 48. Elastic,
 49. Floor,
 50. Waterproof—
 51. Roofing,
 52. Wear and strain resisting,
 53. Wire-reinforced,
 54. Yielding—
 54.5. Impression-surface,
 55. Corrugated and indented,
 56. Stair-pads.

155.—CHAIRS.

44. **Baby-jumpers.**
 45. **Baby-walkers.**
 3. **Chairs—**
 27. Adjustable backs,
 28. Adjustable backs and seats,
 26. Attachments,
 29. Backs and seats independently
 adjustable,
 4. Bottoms,
 6. Convertible,
 7. Dentists',
 8. Folding—
 30. Adjustable,
 11. Invalid,
 12. Nursery,
 13. Opera,
 16. Reclining,
 18. Rocking—
 31. Platform,
 21. Step-ladder,
 23. Surgical,
 36. Swinging,
 24. Tilting,
 33. **Pads and feet.**
Rests—
 9. Foot,
 10. Head.
 34. **School seats and desks.**
Seats—
 2. Car,
 5. Circus,
 37. Reversible,
 25. Spring.
 19. **Settees.**
 20. **Sofas.**
Stools—
 42. Cane,
 32. Folding.
Stools and seats—
 38. Duplex,
 39. Pawl-and-ratchet,
 40. Pedestal,
 41. Screw.
 35. **Swings.**
 43. **Upholstery.**

**156.—CURTAINS, SHADES, AND
SCREENS.**

15. **Awnings—**
 42. Frames,
 43. Rigid, intermovable sections,
 44. Roll and reel.
 41. **Carriage-curtains.**
Curtain—
 33. Holders,
 22. Pole-supports,
 19. Poles,
 20. Poles and rings,
 21. Rings and pins,
 46. Theater.
 32. **Curtain-cord tighteners.**
 40. **Curtain-tassels.**
 16. **Flexible blinds.**
Shade—
 24. Brackets,
 25. Fastenings,
 26. Guides,
 27. Hangers, vertically-adjustable,
 28. Raisers,
 29. Rollers—
 30. Dropping,
 34. Friction-brake,
 35. Ratchet-and-pawl,
 36. Spring,
 31. Sticks.
 23. **Shade and curtain hangers.**
 17. **Venetian blinds.**
 13. **Window-cornices.**
 14. **Window-screens—**
 37. Exits,
 38. Extensible,
 39. Rolling.
 10. **Window-shades.**

157.—WHEELWRIGHT-MACHINES.*

1. **Miscellaneous.**
 2. **Rim-compressors.**
 3. **Spoke-setters—**
 4. Work holders and guides.
 5. **Tire-setters—**
 6. Rubber tires.
 7. Trestles and tanks.
 8. **Tire-tighteners—**
 9. Felly-expanders—
 10. Spoke-clamping.
 11. **Tire-removers.**
 12. **Spoke-extractors.**

**158.—LIQUID AND GASEOUS FUEL
BURNERS.***

1. **Furnaces—**
 2. Combined door and burner,
 3. Locomotive type,
 4. Liquid-fuel—
 4.5. Regenerative,
 5. Retort—
 6. Gas-making,
 7. Gas—
 7.5. Regenerative—
 7.6. Separate flues,
 1.5. Air-admission directors.
 8. **Coal-stove attachments—**
 9. Lid-burners.
 10. **Fire-kindlers.**
 11. **Combined oil and gaseous fuel.**
 12. **Combined gas and coal.**
 13. **Combined gas and water
 vaporizers.**
Self-heating tools—
 14. Branding-irons—
 15. Gas,
 16. Hydrocarbon-reservoir,
 17. Burning-tools—
 18. Gas,
 19. Hydrocarbon-reservoir,
 20. Curling-irons—
 21. Hydrocarbon-reservoir,
 22. Roll-heating type,
 23. Sad-irons—
 23.1. Gas,
 23.2. Hydrocarbon-reservoir,
 24. Soldering-irons—
 25. Solder-feeders,
 26. Gas,
 27. Hydrocarbon-reservoir.
 27.4. **Blowpipe—**
 27.5. Flame-deflecting jet—
 27.6. With pressure-generator.

* See Definitions of Revised Classes.

158.—LIQUID AND GASEOUS FUEL BURNERS—Continued.

- Burners—**
- 28. Liquid-fuel—
 - 29. Automobile—
 - 30. Gas-chamber,
 - 31. Starters,
 - 32. Blast-lamp—
 - 33. Hand-torches—
 - 35. Wick type,
 - 36. Fuel-feeding—
 - 37. Maintained oil-level—
 - 38. Float-controlled—
 - 39. Liquid-seal,
 - 40. Fountain-feed—
 - Removable-font—
 - 41. Cut-off,
 - 42. Vertically-adjustable burner or tank,
 - 43. Liquid-seal,
 - Lamp-stove type—
 - 44. Reservoir—
 - 45. Protector and air-feeding,
 - Tanks—
 - 46. Reserve-supply,
 - 46.5. Combined oil and gas,
 - 48. Burner out-off—
 - 49. Retracting-pump,
 - Force-feed—
 - 50.1. Gas,
 - 50.2. Liquid,
 - 50.3. Mechanical,
 - 51. Siphon-feed,
 - 52. Drop-feed,
 - 53. Retort—
 - 54. Superheating—
 - 55. Burner-cap,
 - 56. Oil, steam, or water—
 - 57. Steam-jet,
 - 58. Additional-orburetor—
 - 59. Central-generator,
 - 60. Movable vapor-deflector,
 - 61. Auxiliary-heater—
 - 62. Subburner,
 - 63. Overlaying—
 - 64. Mixing-chamber—
 - 65. Burner-cap,
 - 66. Underlying—
 - 67. Conducting-plate—
 - 68. Mixing-chamber and burner-cap,
 - 69. Mixing-chamber and burner-cap,
 - 70. Mixing-chamber and flame-deflector,
 - 71. Side-retort,
 - 72. Wick-feed,
 - 79. Coil,
 - 80. Film,
 - 81. Starters—
 - 82. Continuously-operated,
 - 83. Lighting-cup—
 - 84. Oil-charge measuring,
 - 85. Lighting and relighting devices,
 - 73. Spray—
 - 74. Oil, air, and steam,
 - 75. Oil and steam,
 - 76. Oil and air,
 - 77. Atomizers,
 - 78. End nozzles,
 - 86. Perforated combustion-tube—
 - 87. Trough,
 - 88. Wick,
 - 89. Combustion-tubes,
 - 90. Lighting arrangements,
 - 91. Pan or tray—
 - 92. Steam or air spray,
 - 93. Water-surface,
 - 94. Lamp type—
 - 95. Water-vaporizers,
 - 96. Absorbent—
 - 97. Alcohol-lamp,
 - 99. Gas—
 - 100. Gas-logs,
 - 101. Acetylene,
 - 102. Gas-jet attachments—
 - 103. Convertible,
 - 104. Multiple—
 - 105. Independent cut-off,
 - 106. Mixing-tube,
 - 107. Relatively adjustable,
 - 108. Regenerative,
 - 109. Pressure-burners,
 - 110. Concentric gas and air jet,
 - 111. Laboratory type,
 - 112. Davy-lamp diaphragm,
 - 113. Flame-deflectors,
 - 114. Fuel-distributors,
 - 115. Lighting devices,
 - 116. Burner-caps—
 - 117. Regulating,
 - 117.5. Processes.

159.—LIQUID AND GASEOUS FUEL BURNERS—Continued.

- 118. Gas and air mixers—
- 119. Proportional.
- 120. Valves and cleaners—
- 121. Pressure-governed.

160.—STEAM AND VACUUM PUMPS.

- 3. Feeders and traps.
- 1. Miscellaneous.
- 2. Steam-loop.

161.—TIME CONTROLLING MECHANISMS.*

- 1. Miscellaneous.
- Annunciators—**
- 2. Electric—
- 3. Selective-alarm,
- 4. Single-alarm—
- 5. Adjustable-pln,
- 6. Auxiliary-switch,
- 7. Mechanical.
- 8. Valve-actuating mechanism—
- 10. Stock-feeders,
- 8. Dampers,
- 9. Gas-cocks.
- 11. Lighting mechanism—
- 12. Electric,
- 14. Friction.
- 15. Timing mechanism—
- 16. Culinary,
- 17. Game,
- 18. Speed,
- 19. Telephone-service,
- 20. Watchmen's,
- 21. Workmen's,
- 22. Awakeners.
- 23. Alarms.
- 24. Time-balls.
- 25. Switch-actuating mechanism—
- 27. Clock-train type.
- 26. Shutter-actuating mechanism.

162.—INJECTORS AND EJECTORS.

- Ejector—**
- 3. Fluid-level controlled.
- Injector—**
- 2. Fluid-level controlled.
- 1. Miscellaneous.

163.—NEEDLE AND PIN MAKING.*

- 1. Needle-making—
- 2. Knitting-needles—
- 3. Tongued,
- 4. Rotary blank-carrier,
- 5. Processes.
- 6. Pin-making—
- 7. Safety-pins.
- 8. Assorting and packaging needles and pins.

164.—CUTTING AND PUNCHING SHEETS AND BARS.*

- 1. Buttonholes—
- 2. Machines,
- 3. Knives,
- 4. Pliers—
- 5. Modified scissors,
- 6. Scissors attachments.
- Expanded-metal—**
- 6.5. Reciprocating,
- 6.6. Roller.
- Fence-barbs—**
- 8. Cutters and dies—
- 9. Roller.
- 10. Processes.
- 10.5. Printers' leads.

164.—CUTTING AND PUNCHING SHEETS AND BARS—Contd.

- 10.6. Scrap-cutting.
- 11. Combined machines—
- 12. Work-feeding,
- 13. Die cutting and punching,
- 14. Pivoted knife-carrier,
- 15. Reciprocating knife-carrier,
- 16. Roller-cutter and punch.
- 17. Cutting—
- 18. Die—
- 19. Machines—
- 20. Work-feeding—
- 21. Reciprocating-feeder,
- 22. Roller-feed,
- 23. Reciprocating cross-head—
- 24. Shifting dies,
- 25. Reciprocating-plunger—
- 26. Lever-operated,
- 27. Sorew-operated,
- 28. Roller-die,
- 29. Dies—
- 30. Spiral-strip cutting,
- 31. Adjustable-face,
- 32. Multiple concentric,
- 33. Blank-ejecting,
- Machines—**
- 34. Band-knife,
- 35. Fixed-cutter—
- 36. Roller-feed,
- 37. Spiral-strip,
- 38. Work-feeding—
- 39. Roller-feed,
- 40. Oscillating apertured cutters.
- 41. Pivoted-cutter—
- 42. Work-feeding,
- 43. Transverse,
- 44. Lever-operated—
- 45. Work-clamping,
- 46. Compound-leverage,
- 47. Reciprocating-cutter—
- 48. Work-feeding—
- 49. Roller-feed,
- 50. Notched-work,
- 51. Automatic-clamp,
- 52. Separately-operated clamp,
- 53. Draw-cut—
- 54. Automatic-clamp,
- 55. Separately-operated clamp,
- 56. Fluid-operated,
- 57. Lever-operated,
- 58. Cutters and bed-blocks,
- 59. Gages,
- 60. Rotary-cutter—
- 61. Work-feeding—
- 62. Reciprocating-feeder,
- 63. Curved-plate work,
- 64. Notched-work,
- 65. Slitters and winders,
- 66. Transverse—
- 67. Work-feeding—
- Printing-press attachments,
- 69. Rotary work-mandrel,
- 70. Cutters,
- 71. Sweep-cutter—
- 72. Elliptical-work,
- 73. Traveling cutter-carriage—
- 74. Motor-driven cutter—
- 75. Reciprocating,
- 76. Rotary,
- 77. Roller-knife,
- 78. Cutting-tables—
- 79. Work-clamping,
- 80. Implements—
- 81. Pliers,
- 82. Sweep,
- 83. Traveling—
- 84. Roller-cutter.
- Punching—**
- 86. Machines—
- 87. Feeding and punching—
- 88. Reciprocating-feed,
- 89. Roller-feed,
- 89.5. Hand-guided motor-driven,
- 108. Tube,
- 109. Tie-band tongue,
- 111. Punch-selector—
- 112. Keyboard-controlled—
- 113. Electrically-operated,
- 114. Pattern-controlled—
- 115. Electrically-operated,
- 90. Gang—
- 91. Lever-operated—
- 92. Foot,
- 93. Pattern,
- 94. Printers' rules,
- 99. Roller—
- 100. Printing-press attachments,
- 94. Hammer,
- 95. Hydraulic,
- 96. Lever-operated—
- 97. Foot,

* See Definitions of Revised Classes.

164.—CUTTING AND PUNCHING SHEETS AND BARS—Contd.

- Punching—Continued.**
Machines—Continued.
 101. Screw-operated,
 102. Shaft-driven—
 103. Tilting-frame,
 104. Stop devices—
 105. Shaft-clutch,
 106. Stroke adjustments,
 107. Safety devices,
 110. Strippers and hold-downs,
 116. Feed mechanisms—
 117. Reciprocating,
 118. Dies and die-holders,
 119. Implements—
 120. Pivoted handles—
 121. Pliers—
 122. Turret,
 123. Traveling-roller,
 124. Punches,
 125. Processes.

165.—DESIGNS.

The subclasses conform as nearly as possible to the mechanical classes.

166.—WELLS.*

1. Miscellaneous.
 2. Flowing—
 3. Ejecting.
 4. Well-casing—
 5. Drive-points and strainers—
 6. Inserted strainer-plug,
 7. Fabric strainer,
 8. Wire-wound,
 9. Shoes,
 10. Packers—
 11. Double,
 12. Dog or slip type,
 13. Plugs,
 14. Heads—
 15. Controllers.
 16. Cleaning apparatus—
 17. Heater,
 18. Mechanical—
 19. Bailer,
 20. Washer,
 21. Processes.

167.—MEDICINES.

2. Capsules.
 3. Disinfectants—
 12. Candles and holders.
 4. Extracts.
 5. Hair dyes and tonics.
 6. Insecticides.
 7. Internal remedies.
 8. Plasters.
 11. Tobacco substitutes.
 9. Topical remedies.
 10. Veterinary.

168.—FARRIERY.*

1. Overshoes—
 2. Medicating,
 3. Swamp.
 4. Shoes—
 5. Ox,
 6. Hoof-spreading—
 7. Hinged sections—
 8. Spring,
 9. Stretching-bar,
 10. Wedge,
 11. Auxiliary tread-plate,
 12. Cushioned—
 13. Soft-tread—
 14. Sole-pad,
 15. Spring-heels,
 16. Interference-pads,
 17. Fastenings—
 18. Boots,
 19. Clamped sections,
 20. Inclined-flange.

168.—FARRIERY—Continued.

- Shoes—Continued.**
Fastenings—Continued.
 21. Side spurs,
 22. Toe and heel straps,
 23. Nails and screws,
 24. Shape,
 25. Weights.
 26. Sole-pads—
 27. Medicating,
 28. Elastic.
 29. Calks—
 30. Creeper-sections,
 31. Removable—
 32. Bolt,
 33. Bolt and lug,
 34. Clamped,
 35. Dovetailed,
 36. Hooked lug and pin,
 37. Hooked lug and wedge,
 38. Nail-calk,
 39. Tenoned—
 40. Button-head,
 41. Cross-pinned,
 42. Friction,
 43. Screw-threaded,
 44. Wedged.
 45. Shoeing-stands.
Tools—
 46. Calk-sharpener,
 47. Hoof and shoe expanders,
 48. Hoof cleaners and trimmers,
 49. Nail-clenchers.

169.—FIRE-EXTINGUISHERS.

5. Automatic nozzles and sprinklers.
 6. Automatic valves.
 7. Car-heaters.
 8. Chemical-mixing—
 9. Automatic.
 10. Chemical stream impregnating.
 11. Combustion.
 12. For oil-tanks.
 13. Gas-pressure supply.
 14. Miscellaneous.
Portable—
 15. Automatic,
 16. Grenades,
 17. Hand vessels,
 18. Liquid pumps and syringes,
 19. Water-towers,
 20. Wheeled.
Stationary systems—
 21. Automatic,
 22. Automatic-valve—
 23. Pressure-controlled,
 24. Chemical-mixing,
 25. Gas-pressure supply.

170.—MOTORS—FLUID-CURRENT.*

1. Combined motors.
Wind-motors—
 2. Combined types,
 3. Receiving-chamber—
 4. Rotary-receiver,
 5. Endless-chain,
 6. Oscillatory,
 7. Rotary—
 8. Combined types,
 9. Transverse-axis—
 10. Rotary-support—
 11. Guide or deflector attached,
 12. Multiple wheels,
 13. Guide or deflector—
 14. Axially-swiveled,
 15. Angular vanes—
 16. Adjustable,
 17. Cylindrical-gate,
 18. Adjustable-wheel,
 19. Feathering-blades—
 20. Collapsible-bucket,
 21. Flexible,
 22. Parallel axes—
 23. Positively-operated—
 24. Adjustable,
 25. Adjustable,
 26. Radial axes—
 27. Positively-operated—
 28. Adjustable,
 29. Adjustable,
 30. Adjustable,

170.—MOTORS—FLUID-CURRENT—Continued.**Wind-motors—Continued.**

- Rotary—Continued.**
Transverse-axis—Continued.
 31. Adjustable blades or buckets—
 32. Flexible,
 33. Parallel axes,
 34. Radial axes,
 35. Frame construction,
 36. Wheel construction,
 37. Parallel-axis—
 38. Multiple wheels—
 39. Concentric,
 40. Guide or deflector,
 41. Wheel-deflection mechanism—
 42. Vertical-deflection,
 43. Rearwardly-mounted wheel—
 44. Governor-vane—
 45. Axially-swiveled,
 46. Folding wheel and tail-vane—
 47. Brake or stop,
 48. Governor-vane,
 49. Double-folding tail-vane,
 50. Axially-movable wheel,
 51. Centrifugal-governor,
 52. Normally-folded,
 53. Self-gravitating,
 54. Rigidly-adjustable,
 55. Feathering tail-vane,
 56. Steering and resistance devices—
 57. Wind-wheel,
 58. Adjustable-wheel,
 59. Adjustable blades—
 60. Flexible,
 61. Axially-swiveled,
 62. Radially-pivoted—
 63. Groups,
 64. Brake or stop,
 65. Governor-vane—
 66. Vane on wheel,
 67. Centrifugal-governor—
 68. Governor on wheel,
 69. Transversely-pivoted—
 70. Single,
 71. Sectional,
 72. Brake or stop,
 73. Governor-vane,
 74. Centrifugal-governor
 75. Controlling devices,
 76. Frame construction—
 77. Rotary-support—
 78. Yoke,
 79. Wheel construction—
 80. Frames and attachments,
 81. Vane construction.
Water-motors—
 82. Combined types,
 83. Endless-chain—
 84. Float—
 85. Guide or deflector,
 86. Multiple-unit,
 87. Double-acting,
 88. Guide or deflector,
 89. Adjustable-motor,
 90. Feathering-blades—
 91. Positively-operated,
 92. Adjustable blades,
 93. Oscillatory,
 94. Reciprocatory,
 95. Crank-paddle,
 96. Rotary—
 97. Combined types,
 98. Transverse-axis—
 99. Ebb and flow—
 100. Reversible gates,
 101. Horizontal—
 102. Float—
 103. Guide or deflector,
 104. Multiple wheels,
 105. Guide or deflector,
 106. Adjustable-wheel,
 107. Feathering-blades—
 108. Parallel axes,
 109. Radial axes,
 110. Wheel construction—
 111. Buoyant-wheel,
 112. Float—
 113. Guide or deflector,
 114. Multiple wheels,
 115. Guide or deflector,
 116. Adjustable-wheel,
 117. Feathering-blades—
 118. Parallel axes—
 119. Positively-operated,
 120. Radial axes—
 121. Positively-operated,
 122. Positively-operated,

* See Definitions of Revised Classes.

170.—MOTORS—FLUID-CURRENT—
Continued.

- Water-motors—Continued.**
Rotary—Continued.
 Transverse-axis—Contd.
 123. Adjustable blades,
 124. Wheel construction,
 125. Parallel-axis—
 126. Ebb and flow,
 127. Float—
 128. Guide or deflector,
 129. Multiple wheels,
 130. Guide or deflector,
 131. Adjustable-wheel,
 132. Adjustable blades,
 133. Wheel construction—
 134. Trailing-wheel.
Impellers—
 135. Endless-chain—
 136. Buoyant,
 137. Feathering-blades,
 138. Crank-paddle—
 139. Adjustable blades,
 140. Paddle-wheel—
 141. Buoyant,
 142. Feathering-blades—
 143. Sliding—
 144. Adjustable,
 145. Parallel axes—
 146. Positively-operated—
 147. Adjustable,
 148. Cam-track,
 149. Gearing,
 150. Eccentric,
 151. Radial axes—
 152. Positively-operated—
 153. Adjustable,
 154. Adjustable blades,
 155. Screw—
 156. Buoyant,
 157. Sectional,
 158. Projected blades—
 159. Adjustable—
 160. Flexible,
 161. Radially-pivoted—
 162. Distance-controlled,
 163. Transversely-pivoted,
 164. Multiple-offset,
 165. Inner and outer,
 166. Distance-attached,
 167. Peripheral-rlm,
 168. Braces or stays,
 169. Flanged,
 170. Looped,
 171. Perforated,
 172. Attachments,
 173. Adjustable blades,
 174. Spaced or perforated blades,
 175. Rims or flanges,
 176. Attachments.

171.—ELECTRICITY—GENERATION.

- Batteries—**
 73. Thermal.
Friction-generators.
 95. **Galvanometers—**
 308. Expansion.
Inductoriums—
 123. Transformers, rotary.
Magneto-electric—
 Armatures—
 205. Disk,
 206. Drum,
 207. Pole,
 208. Ring,
 209. Bipolar,
 317. Collector traversing mechan-
 ism,
 118. Connecting devices,
 76. Hand-machines,
 252. Multipolar,
 318. Reverse-movement brush-
 shifters,
 212. Uniform-field.
Meters—
 264. Alternating-motor—
 309. Phase-adjustment,
 265. Direct-motor,
 266. Electrolytic,
 267. Escapement,
 268. Multiple-rate,
 Thermal—
 270. Fluid-expansion,
 271. Hot-wire,
 272. Time,
 273. Variable-radius.
 125. **Pyromagneto-electric devices.**

171.—ELECTRICITY—GENERATION—
Continued.

- Regulators—**
 119. Alternating—
 241. Compounding,
 242. Inductive-resistance,
 221. Brush-adjustment,
 222. Circuit-interruption,
 223. Compound-winding,
 224. Compound-machines,
 225. Counter-electromotive force,
 226. Engine-control,
 227. Magneto-reluctance,
 228. Reducing sparks,
 229. Resistance,
 230. Sectional-winding,
 231. Transmitting mechanism,
 315. **Systems—**
 312. Automatic-regulation,
 313. Car,
 314. Secondary-battery.
Systems of distribution—
 97. Anti-electrolysis,
 316. Compensating-battery—
 310. Alternating-direct—
 311. Transformer-controllers.
 254.

172.—ELECTRICITY—MOTIVE
POWER.

- Battery systems.**
 15. **Dental instruments.**
 285. **Electromagnetic guns.**
 152. **Elevators.**
Motors—
 120. Alternating—
 233. Condensers,
 280. Polyphase,
 274. Regulators,
 275. Single-phase—
 276. Direct-current type,
 277. Distorted-field,
 278. Shifting-field,
 279. Starters,
 289. Automatic starters—
 288. Alternating-current,
 179. Direct-current,
 290. Hand-operating devices,
 286. Linear,
 126. Railway type,
 287. Reciprocating,
 287. Wheel.
Steering and propulsion—
 282. Automatic-control,
 283. Cable-control.
Transmission of power—
 237. Alternating,
 239. Direct—
 284. Magnetic clutches,
 281. Frequency-changers,
 245. Phase-indication,
 238. Phase-modification,
 246. Phase-regulation,
 240. Reciprocating,
 292. Synchronization—
 293. Rotary-element.

173.—ELECTRICITY—CONDUCTORS.

- 13. Conductors—**
 81. Anti-inductive,
 264. Insulated—
 265. Air,
 266. Armored—
 267. Spiral-strip,
 268. Joints—
 367. Insulated,
 324. Take-up,
Connectors—
 259. Binding-posts,
 353. Cable-terminals,
 327. Ceiling-blocks,
 269. Cord-terminals—
 322. Strain-relievers,
 273. Line-tappers,
 326. Pipe-couplers,
 328. Quick-detachable—
 329. Ceiling-blocks,
 338. Fixture—
 341. Magnetic-support,
 339. Perforated plate attached,
 340. Pin-conductor tap,
 342. Screw,

173.—ELECTRICITY—CONDUCTORS—
Continued.

- Connectors—Continued.**
Quick-detachable—Continued.
 Interposed—
 344. Lamp-socket,
 343. Two-part plug,
 356. Locks and seals,
 334. Multiple connections, taps—
 335. Lamp-cluster—
 337. Alined-socket,
 336. Switch,
 330. Outlet-box and wall-plug—
 331. Screw,
 361. Plugs,
 358. Screw—
 359. Plugs—
 360. Expandible,
 363. Single-contact,
 357. Socket-adapters,
 362. Socket-shells,
 332. Strain detachable couplers—
 333. Air-pipe,
 346. Switch, lamp-socket type—
 347. Multiple-throw—
 348. Rotatable-body,
 354. Pull-chain,
 355. Push,
 349. Rotatable-body,
 350. Rotatable key and contact-
 block—
 351. Screw-base,
 352. Rotatable key and facial
 contact,
 262. Rail-bonds—
 280. Socket-connected—
 282. Rivet and wedge,
 281. Riveted,
 283. Wedge,
 Surface-connected—
 277. Bolt or clamp,
 278. Soldered,
 279. Spring-pressed,
 263. Wire-splices—
 303. Beveled-clamp,
 304. Sleeve—
 305. Bent or upset end,
 306. Crimped or twlsted.
Insulators—
 28. Bushings,
 311. Cleats,
 312. Conductor-holders—
 313. Divided-insulator,
 314. Hooks,
 315. Non-alining slots,
 316. Twisted-slot,
 317. High-potential,
 318. Insulated nails,
 319. Insulating fabrics,
 320. Pipe and fixture joints,
 365. Strain—
 366. Compressed-insulation,
 321. Supports.
 31. **Lightning-rods.**
 244. **Machines for covering.**
 251. **Supports and hangers.**

174.—ELECTRICITY—MEDICAL AND
SURGICAL.

87. Baths.
 88. Body-wear.
 89. Electrodes.
 177. Medical and surgical—
 172. Chairs and couches,
 173. Combs and brushes,
 174. Electric soles,
 175. Exercising apparatus,
 170. Vaporizers.

175.—ELECTRICITY—GENERAL AP-
PLICATIONS.

265. Applications, special—
 311. Biological.
Circuit breakers—
 Automatic—
 Electromagnetic—
 267. Non-closable,
 268. Overload,
 269. Overload and underload,
 270. Retarded,
 271. Reverse-current,
 272. Underload.

* See Definitions of Revised Classes.

175.—ELECTRICITY—GENERAL APPLICATIONS—Continued.

346. **Circuit-interrupters—**
 347. Rotary—
 348. Fluid,
 349. Vibratory—
 350. Fluid.
 353. **Current-amplifiers.**
Cut-outs—
 273. Thermal—
 274. Branch,
 275. Heater,
 276. Lamp,
 277. Plug,
 278. Successive.
Demagnetizing.
 264. **Discharging static charges.**
 315. **Electrolytic devices—**
 316. Cells—
 317. Film-electrode—
 318. Asymmetric,
 319. Interrupters.
Electromagnet circuits.
 21. **Electromagnets.**
 336. **Electromagnets with armatures—**
 338. Alternating-current,
 345. Armatures,
 340. Coil,
 337. Compound,
 341. Core-armature,
 339. Polarized,
 344. Reciprocating-armature,
 342. Self-adjustable,
 343. Suspended-element,
Igniting devices—
 115. Automatic,
 296. Cigar,
 117. Inductional,
 116. Manual,
 91. Portable.
 312. **Lamp-dimmer systems.**
 30. **Lightning-arresters—**
 214. Magnetic,
 215. Thermal.
Oré-detectors.
 351. **Pole-changers—**
 352. Automatic.
Rectifying—
 363. Mechanical—
 364. Vibratory.
Relays, circuit-closing—
 321. Alternating-current,
 323. Coil,
 322. Compound,
 329. Core-armature,
 326. Differential,
 331. Fluid-element,
 332. Multiple-break,
 330. Multiple-line,
 327. Polarized,
 333. Self-adjustable,
 334. Suspended-element,
 325. Telephone-switchboard or multiple-spring-contact type,
 324. Thermal-current.
 320. **Relay-circuits.**
 356. **Stationary induction apparatus—**
 362. Coil-sections,
 361. Incased,
 358. Instrument-transformers,
 359. Open-magnetic-circuit type—
 360. Incased,
 357. With interrupters or condensers.
Switchboards—
 300. Details,
 298. Miscellaneous,
 301. Movable-contact—
 302. Pivoted-arm,
 303. Plunger,
 304. Plates,
 305. Plates and strips,
 306. Strips.
Switches—
 Automatic—
 310. Centrifugal,
 279. Electromagnetic,
 280. Suspended-wire controlled,
 281. Electromagnetic,
 309. Float-operated,
 308. Fluid-pressure,
 282. Mechanical—
 283. Longitudinally-reciprocating—
 Snap,
 284. Loop,
 285. Oscillating-snap—
 Auxiliary snap-contact,
 286. Double-snap,
 287. Single-snap,
 288.

175.—ELECTRICITY—GENERAL APPLICATIONS—Continued.

Switches—Continued.
 Mechanical—Continued.
 289. Rotary—
 291. Push-button,
 290. Rotary-snap,
 292. Thermal cut-out,
 293. Two-button snap.
Systems—
 294. Safety,
 355. Speed-controlled.
 183. **Testing.**
 354. **Vapor electric devices.**

176.—ELECTRIC LAMPS.*
 1. **Miscellaneous.**
Manufacture and repair—
 2. Exhaustion and gas-charging,
 3. Apparatus—
 4. Filaments and glowers,
 5. Electrodes,
 6. Connections,
 7. Processes.
Systems—
 8. Combined,
 10. Incandescent—
 11. Pyroelectric,
 12. Arc—
 13. Liquid-electrode.
Display.
 15. **Arc and incandescent.**
Incandescent—
 17. Pyroelectric—
 18. Lamp circuits,
 19. Circuit-controlling structure—
 Automatic,
 21. Heaters and glowers—
 22. Relatively-movable,
 23. Transformer-lamps,
 24. Automatic switches and cut-outs—
 25. Electromagnetic,
 26. Multiple-filament lamps—
 27. Switch,
 28. Electrodes in contact,
 29. Double base and tubular,
 30. Non-refillable,
 31. Locks and seals,
 32. Bases, terminals, and bulb-holders—
 33. Switch,
 34. Reflectors and refractors,
 35. Combined seals and connections,
 36. Seals—
 37. Plug and cap,
 38. Connections,
 39. Auxiliary filament-support,
 40. Filament-form.
Arc—
 42. Liquid-electrode—
 43. Temperature regulation,
 44. Protectors,
 45. Starting—
 Combined,
 47. Drawing arc—
 48. Tilting-lamp,
 49. Auxiliary-electrode,
 50. Solid electrode structure and seals,
 51. Side-reflector type,
 52. Flaming and luminous arc,
 53. Alternating-current,
 54. Automatic auxiliaries,
 55. Starting and feeding—
 Concentric feed-mounting—
 Inclosed-arc,
 58. Multiple-arc—
 Simultaneous,
 59. Gear brake and detent,
 61. Arc shifting switch—
 62. Gear brake and detent,
 63. Magazine,
 64. Flaming and luminous arc,
 65. Inclined and rotary electrodes—
 66. Motor,
 67. Positive intermittent-grip gear,
 68. Special-clutch,
 69. Gear brake and detent,
 70. Consumption-feed,
 71. Thermal,
 72. Motor—
 73. Electric—
 74. Motor-circuit control—
 75. Automatic-switch,

176.—ELECTRIC LAMPS—Continued.
Arc—Continued.
 Starting and feeding—Contd.
 76. Positive intermittent-grip gear,
 77. Positive feed-clutch—
 78. Separate holding-clutch,
 79. Combined feeding and holding clutch,
 80. Combined special clutch and operating means—
 81. Automatic-switch,
 82. Ball,
 83. Double-dog—
 84. Magnetic-clutch,
 85. Automatic-switch,
 86. Pivot-dog—
 87. Automatic-switch,
 88. Ring—
 89. Automatic-switch,
 90. Magnetic clutch and brake—
 Expanding-core,
 91. Automatic-switch,
 92. Gear-brake—
 93. Multiple-armature operated,
 94. Automatic-switch,
 95. Gear-detent—
 96. Multiple-armature operated,
 97. Automatic-switch,
 98. Electromagnetic-feed—
 99. Fluid-transmission,
 100. Automatic-switch,
 101. Consumption-feed,
 102. Manual,
 103. Special starters,
 104. Clutches—
 105. Double-dog,
 106. Pivot-dog,
 107. Dampers and dash-pots,
 108. Stationary electrode,
 109. Automatic switches—
 110. Consumption cut-outs,
 111. Thermal switches and cut-outs,
 112. Inclosed-arc,
 113. Magnets, armatures, and magnet-supports,
 114. Cases and frames—
 115. Resistances and manual switches,
 116. Arc-confining, reflecting,
 117. Magnetic influence and deflection of arc,
 118. Electrode-holders—
 119. Movable-contact,
 120. Electrode structure.
Gas and vapor—
 121. Luminous-electrode,
 122. Special current-supply,
 123. Gas and vapor admitting,
 124. Electrodes, terminals, and seals.
Filament and glower compositions—
 125. Carbon-containing,
 126. Carbon and salt,
 127. Carbon and oxid,
 128. Carbon and metal,
 129. Non-carbon—
 130. Metals and alloys.
Electrode compositions—
 131. Carbon-containing,
 132. Carbon and oxid or salt,
 133. Carbon and metal,
 134. Non-carbon.

177.—ELECTRIC SIGNALING.

311. **Alarms—**
 314. Burglar,
 315. Hose,
 316. Safe.
Annunciator systems—
 333. Answer-back,
 334. Auxiliary,
 335. Elevator,
 336. Multiple-variation—
 337. Step-by-step,
 338. Single-variation,
 339. Station selective—
 340. Reed,
 341. Step-by-step—
 342. Strength and polarity,
 343. Strength and polarity,
 344. Target,
 345.

* See Definitions of Revised Classes.

177.—ELECTRIC SIGNALING—Contd.

- 324. **Annunciators—**
- 325. Auxiliary,
- 326. Grouped units,
- 327. Multiple-variation—
- 328. Step-by-step,
- 329. Single-variation—
- 330. Circuit-closing,
- 331. Station-selectors—
- 332. Step-by-step.
- 7. **Bells—**
- 288. Electromechanical.
- 352. **Systems—**
- 382. Alarms and extinguishers,
- 383. Engine-house apparatus,
- 354. Fire-repeaters,
- 353. Selective,
- 360. Signal-box transmission—
- 367. Circuit-maintenance,
- 366. Composite,
- 379. Detention devices,
- 368. Door-controlled,
- 372. Frangible element,
- 369. Local-box-actuating-circuit type,
- 361. Non-interfering—
- 363. Key-obstruction,
- 362. Thermal-control,
- 370. Portable box-actuating key—
- 371. Guards or protectors,
- 373. Signals at box—
- 374. Lamp,
- 375. Return or answer-back,
- 376. Simultaneous,
- 377. Transmitters—
- 378. Make-and-break wheel,
- 364. Variable-signal—
- 365. Dial,
- 355. **Thermal-control—**
- 356. Composite,
- 357. Signal-box transmission—
- 359. Fusible motor-release,
- 358. Local-box-actuating-circuit type,
- 380. Transmitters—
- 381. Rotary-distributor.
- 346. **Systems, display—**
- 348. Drum and cam operated switch,
- 350. Form-operated switch,
- 347. Intermittent, thermal switch,
- 349. Keyboard-operated.
- 351. **Telemetric.**

178.—TELEGRAPHY.*

- 1. **Miscellaneous.**
- 2. **Systems—**
- 3. Automatic—
- 4. Printing,
- 5. Facsimile—
- 6. Optical,
- 7. Photographic-recorder,
- 8. Multiple-pen—
- 9. Lettering—
- 10. Type-transmitter,
- 11. Successive-line—
- 12. Pendulum synchronized,
- 13. Cylinder,
- 14. Revolving-stylus,
- 15. Photographic-recorder,
- 16. Current-reversing,
- 17. Transmitters or recorders,
- 18. **Writing—**
- 19. Alternating-current,
- 20. Variable direct current,
- 21. Stenographic,
- 22. Secret,
- 23. **Printing—**
- 24. Bulletin,
- 25. Page—
- 26. Translators,
- 27. Selectors,
- 28. With type-wheel recorder—
- 29. Recorders,
- 30. Character elements,
- 31. Multiple-line circuit—
- 32. With type-wheel recorder,
- 33. Selectors—
- 34. With type-wheel recorder,
- 35. With type-wheel recorder,
- 36. Recorders—
- 37. Secret,
- 38. With type-wheel—
- 39. Multiple—
- 40. Shifting devices,
- 41. Unisons,
- 42. Paper guiding or feeding,

178.—TELEGRAPHY—Continued.

- Systems—Continued.**
- 43. Space-induction,
- 44. Wave-transmission—
- 45. Loaded-circuit—
- 46. Loading-coils,
- 47. Harmonic or reed—
- 48. Recorders and receivers,
- 49. Superposed-current,
- 50. Multiplex—
- 51. Resonant,
- 52. Rotary-distributor—
- 53. Synchronizers,
- 54. Sextuplex,
- 55. Quadriplex—
- 56. Repeating,
- 57. Duplex-duplex,
- 58. Duplex—
- 59. Differential,
- 60. Bridge,
- 61. Diplex,
- 62. Chemical,
- 63. Cable or capacity,
- 64. Coil-transformer,
- 65. Dynamo,
- 66. Alternating-current—
- 67. Modified-semicycle,
- 68. Pulsating-current,
- 69. Line-clearing and circuit-maintenance,
- 70. **Repeaters—**
- 71. Automatic—
- 72. Mechanical circuit-retainer,
- 73. Multiple-line.
- Circuits—**
- 74. Manipulating-switch,
- 76. Retarded-closer.
- Combined instruments—**
- 77. Portable sets.
- Code-transmitters—**
- 80. Combined instruments—
- 81. With type-writer,
- 82. Automatic dot,
- 83. Rotary-contact—
- 84. Drum,
- 85. Oscillating-contact,
- 86. Reciproating-contact,
- 87. Stylus and tablet.
- Receivers—**
- 88. Code-recorders—
- 89. Photographic,
- 90. Indenting or perforating,
- 91. Polarized,
- 92. Pyrographic,
- 93. Stop mechanisms,
- 94. Inking devices,
- 95. Double-tape movement,
- 96. Sounders—
- 97. Secret,
- 98. Augmenting.
- 100. **Keys—**
- 101. Multiple-contact,
- 102. Multiple-line,
- 103. Self-closing,
- 104. Reversible,
- 105. Shifting contact-point,
- 106. Knife-edge pivot,
- 107. Horizontal-swing,
- 108. Spring-pivot,
- 109. Finger-buttons.
- 110. **Tapes—**
- 111. Perforated.
- 112. **Codes.**
- 113. **Instrument-tables.**
- 114. **Learners' instruments.**
- 115.

179.—TELEPHONY.*

- 1. **Systems—**
- 2. Composite—
- 3. Telegraphy—
- 4. Metallic-circuit,
- 5. Fire or police,
- 6. Combined telephone and phonograph,
- 6.3. Check-controlled—
- 6.4. Check in circuit,
- 6.5. Check-operated switch.
- 7. Register—
- 8. Central—
- 9. Automatic—
- 10. Central-control,
- 11. Automatic—
- 12. Central-control,
- 13. Central-control,
- 14. Key and lock,
- 15. Multiplex,

179.—TELEPHONY—Continued.

- Systems—Continued.**
- 16. Automatic—
- 17. Polystation-lines,
- 18. Percentage,
- 19. Lock-out—
- 20. Central-energy,
- 21. Combined rotary and non-rotary,
- 22. Non-rotary,
- 23. Central-energy,
- 24. Combined rotary and non-rotary,
- 25. Non-rotary,
- 26. Auxiliary automatic exchange,
- 27. Semi-automatic,
- 27.5. Selective switches,
- 28. Polystation-lines—
- 29. Portable sets,
- 30. Lock-out—
- 31. Centralized-energy—
- 32. Central,
- 33. Central,
- 34. Centralized-energy—
- 35. Central,
- 36. Central,
- 37. House or intercommunicating—
- 38. Lock-out—
- 39. Central-energy,
- 40. Centralized-energy,
- 41. Divided central—
- 42. Private-branch exchange,
- 43. Reciprocal signaling-trunks,
- 44. Automatic-ringing,
- 45. Through-ringing—
- 46. Centralized-energy,
- 47. Multiple-switchboard,
- 48. Multiple-switchboard—
- 49. Centralized-energy,
- 50. Centralized-energy,
- 51. Central—
- 52. Multiple answering-jack,
- 53. Multiple-switchboard—
- 54. Auxiliary,
- 55. Centralized-energy—
- 56. Line-signal control—
- 57. Spring-jack cut-off,
- 58. Relay cut-off,
- 59. Plug-terminal—
- 60. Line-signal control—
- 61. Spring-jack cut-off,
- 62. Special test-plug,
- 63. Special test-plug—
- 64. Line-signal control—
- 65. Spring-jack cut-off,
- 66. Relay cut-off,
- 67. Line-signal control—
- 68. Spring-jack cut-off,
- 69. Relay cut-off,
- 70. Centralized-energy—
- 71. Line-signal control—
- 72. Spring-jack cut-off,
- 73. Relay cut-off,
- 74. Line-signal control—
- 75. Spring-jack cut-off,
- 76. Relay cut-off,
- 77. Centralized-energy,
- 78. Anti-inductive—
- 79. Condenser,
- 80. Impedance,
- 81. Substation-circuits,
- 82. Space-induction,
- 84. Call—
- 85. Step-by-step,
- 86. Strength and polarity,
- 87. Reed,
- 88. Automatic,
- 89. Return,
- 90. Transmitters.
- 91. **Switchboards—**
- 92. Drop-restorers,
- 93. Plug-shifters,
- 94. Lamp-annunciators,
- 95. Plug-seats, switches, and take-ups,
- 96. Spring-jack—
- 97. Strips,
- 98. Wire distribution,
- 99. Substation.
- 100. **Sets.**
- 101. **Telephones—**
- 102. Combined receiver and transmitter—
- 103. Hand,
- 104. Micromagnetic,
- 105. Compound,
- 106. Condenser,
- 107. Audiphones,
- 108. Intensifiers—
- 109. Harmonic vibrators,
- 110. Molecular,

* See Definitions of Revised Classes.

179.—TELEPHONY—Continued.**Telephones—Continued.**

111. Electrostatic,
112. Induction-coil,
113. Non-diaphragm,
114. Magnetic—
115. Diaphragm—
116. Multiple,
117. Magnets—
118. Combined telephone and call,
119. Pole-pieces,
120. Tubular,
121. **Transmitters—**
122. Granular—
123. Multiple-diaphragm,
124. Electrode—
125. Embedded,
126. Plunger,
127. Pockets,
128. Projections,
129. Rotary,
130. Granules magnetic,
131. Multiple-electrode—
132. Multiple-diaphragm,
133. Fluid—
134. Jet,
135. Differential,
136. Multiple series contact,
137. Multiple contact,
138. Diaphragm—
139. Multiple,
140. Electrode—
141. Contact—
142. Gravity—
143. Hinged or pivoted,
144. Magnetic,
145. Spring,
146. **Supports—**
147. Stands,
148. Vertical-adjustment,
149. Pivoted-arm—
150. Extension,
151. Slidable holders,
152. Transmitter,
153. Holder, transmitter-support-
ed,
154. Suspension—
155. Reels,
156. Head-gear,
157. Body,
158. **Switches—**
159. Hook—
160. Selective-line,
161. Obstruction—
162. Movable-jaw,
163. Horizontal-slide,
164. Gravity-lever,
165. Vertical-slide,
166. Connectors,
167. Receiver,
168. Mobile,
169. Rotary contact,
170. **Repeaters.**
171. **Relays.**
172. Induction-coils—
173. Multiple,
174. **Anti-induction devices.**
175. **Testing devices.**
176. **Listening and ringing keys—**
177. Polystation-lines.
178. **Details—**
179. Casings,
180. Dampers,
181. Diaphragms,
182. Earpieces,
183. Hoods,
184. Protectors—
185. Antiseptic,
186. Connections,
187. Mouthpieces—
188. Voice-screens,
189. Locks,
190. Resistance elements.

181.—ACOUSTICS.*

5. Miscellaneous.
1. **Telegraphophones.**
2. **Sound-locating devices.**
29. **Mechanical telephones.**
3. **Speaking-tubes—**
18. Systems,
19. Alarms and indicators,
20. Combined mouth and ear
pieces,
21. Mouthpieces,
22. Tubes.
3. **Gramophones.**

181.—ACOUSTICS—Continued.

2. **Graphophones—**
4. Multiple-record,
8. Tape,
5. Disk,
6. Reciproating-record,
7. Swinging-reproducer-arm,
9. Feed mechanism,
12. Determining devices,
13. Mandrels,
14. Tablets—
14. Methods and machines for
making,
15. Turning and smoothing,
16. Duplicating devices,
17. Tablets.
11. **Sound-boxes—**
10. Gramophone,
24. Stethoscopes.
25. **Ear-trumpets.**
23. **Auricles.**
28. **Dentiphones.**
30. **Auditorium.**

182.—SEWERAGE.

9. **Animal-stops.**
2. **Cleaning.**
3. **Construction.**
4. **Flushing.**
10. **Manholes, catch-basins, and
cesspools.**
7. **Systems.**
11. **Traps—**
12. Air-valves,
15. Liquid-seal—
13. Air-port,
14. Pipe-inlet,
14. Valve-seal.

184.—LUBRICATION.*

1. **Miscellaneous.**
2. **Mine-car lubrication.**
3. **Track or wheel lubrication.**
4. **Windmill lubrication.**
5. **Slide-bearing lubrication.**
6. **Systems—**
7. Conveying devices—
8. Continuous-tube,
9. Sliding-tube,
10. Wipers,
11. Splash,
12. **Conveyers.**
13. **Splash.**
14. **Lubricators—**
15. Belt, cable, or obain lubrica-
tors—
16. Swab-applied,
17. Roller-applied,
18. **Cylinder-lubricators—**
19. Swab-applied,
20. Rotary-swab applied,
21. Elevator-guide lubricators—
22. Swab,
23. Rotary brush or roller,
24. Piston-rod lubricators—
25. Swab,
26. **Force-feed—**
27. **Pumps—**
28. Mechanically-operated,
29. Hand-operated,
30. Fluid-operated,
31. Pendulum-operated,
32. Rotary,
33. Oscillating-piston,
34. Rotary piston and valve,
35. Oscillating distributing-
valve,
36. Rotary distributing-valve,
37. Attachments,
38. **Followers—**
39. Mechanically-operated,
40. Hand-operated,
41. Fluid-operated—
42. Fluid-return,
43. Spring-assisted,
44. Spring-return,
45. Centrifugal,
46. Pendulum-operated,
47. Spring-operated,
48. Weight-operated,
49. Balanced-piston,
50. Looking devices,

184.—LUBRICATION—Continued.

50. **Lubricators—Continued.**
51. **Force-feed—Continued.**
52. Fluid-operated—
53. Condensation-displace-
ment—
54. Double-passage,
55. Single-passage,
56. Choke-plugs,
57. Auxiliary feeding-recep-
tacles,
58. Displacement,
59. Steam or air—
60. Injectors,
61. Initial-pressure,
62. Suction—
63. Vented,
64. Abrasion,
65. Conveyers—
66. Bucket—
67. Rotary,
68. Capillary-attraction,
69. Gravity-feed—
70. Automatic cut-off—
71. Electrically-operated,
72. Thermostats,
73. Vibrators,
74. Centrifugal,
75. Rotatable-valve—
76. Mechanically-operated,
77. Fluid-pressure operated,
78. Pendulum-operated,
79. Vertically-reciprocating
valve—
80. Mechanically-operated—
81. Spring-retained,
82. Fluid-pressure operated,
83. Centrifugally-operated,
84. Pendulum-operated,
85. Horizontally-reciprocating
valve,
86. Combined closure and valve,
87. Multiple-feed,
88. Vertically-movable valve,
89. Measuring-valve,
90. Air-tight receptacle,
91. Siphons,
92. Locking-valve,
93. Fiber-valve,
94. Oil-cup closures—
95. Depressible-cap,
96. Hinged-cover—
97. Spring-controlled,
98. Rotatable-cover—
99. Spring-controlled,
100. Slidable-cover—
101. Spring-controlled,
102. Sight-feeds—
103. Attachments,
104. Liquefiers—
105. Solid-stick,
106. Slide-bearing lubricators,
107. Roller,
108. Swab,
109. Constant-level,
110. Heating and cooling devices
111. Refilling devices
112. Drip-pans.

185.—MOTORS.*

1. **Miscellaneous.**
2. **Composite—**
3. Horse-power type,
4. Weight—
5. Escapement-controlled,
6. Winding—
7. Motor—
8. Fluid,
9. Spring—
10. Winding—
11. Motor—
12. Momentum type,
13. Overwinding-preventers,
14. Indicator.
15. **Horse-power type.**
16. Belt-tread,
17. Drum,
18. Disk,
19. Sweep—
20. Driving and whipping de-
vices,
21. Sweeps—
22. Equalizers,
23. Draft devices,
24. Driving and whipping devices,
25. Anchors.
26. **Pivoted-seat.**

* See Definitions of Revised Classes.

185.—MOTORS—Continued.

27. Weight—
28. Operator,
29. Oscillating—
30. Wave type,
31. Escapement-controlled,
32. Winding—
33. Motor—
34. Fluid,
35. Overwinding-preventers,
36. Indicator.
37. Spring—
38. Escapement-controlled,
39. Winding—
40. Motor—
41. Momentum type,
42. Fluid,
43. Overwinding-preventers,
44. Indicator,
45. Spring-mounting.
46. Escapements.

186.—STORE-SERVICE.*

1. Dining-room service.
2. Gravity systems—
3. Selective-delivery,
4. Tilting-track—
5. Both ends movable—
6. Pivoted arms.
7. Self-propelled-car systems.
8. Single-impulse systems—
9. Speed-increasing,
10. Spring—
11. Longitudinally-moving line.
12. Gravity,
13. Spreaders.
14. Cable-propulsion systems—
15. Grip, selective release,
16. Load-release,
17. Reciprocating—
18. Drop-car.
19. Switches—
20. Selective—
21. Carrier-returned.
22. Elevators and drops—
23. Speed-controlled drop.
24. Buffers—
25. Slide.
26. Carriers—
27. Wheeled—
28. Self-propelled,
29. Drop-receptacle,
30. Derailment-guards,
31. Rolling,
32. Sliding.
33. Details—
34. Track.

187.—ELEVATORS.*

1. Miscellaneous.
2. Building material.
3. Dumb-waiter type—
4. Mail,
5. Locked-car.
6. Exterior-wall—
7. Lateral-movement,
8. Car-brake.
9. Portable—
10. Inclined,
11. Winding-drum.
12. Inclined—
13. Cable-controlled brakes—
14. Rail-gripping.
15. Shiftable-weight.
16. Superposed cars.
17. Motor mechanism—
18. Lazy-tongs,
19. Rack-and-pinion,
20. Rope-drive—
21. Hand-rope operated,
22. Tensioning feature,
23. Differential-sheave,
24. Screw—
25. Traveling rotary element,
26. Traveling-sheave,
27. Winding-drum.
28. Control mechanism—
30. Door-actuated—
31. Electric,
32. Landing-stops—
33. Lock,

187.—ELEVATORS—Continued.

- Control mechanism—Contd.
34. Limit—
35. Electric,
36. Carrier-actuated—
37. Deflected-rope,
38. Speed-controlled—
39. Electric,
40. Well-obstruction—
41. Electric,
42. Operator-actuated—
43. Electric,
44. Rope-controllers—
45. Running-rope,
46. Controller-locks—
47. Door-actuated—
48. Electric,
49. Locked-door—
50. Electric.
51. Door mechanism—
52. Motor-actuated—
53. Common motor-shaft,
54. Separate motors,
55. Flexible screens,
56. Sliding doors—
57. Locked-door,
58. Vertical-movement—
59. Locked-door,
60. Sliding-coupler,
61. Locks.
62. Hatch mechanism—
63. Lever-opener,
64. Sliding-coupler,
65. Direct-contact,
66. Vertically-slidable hatch.
67. Well-end cushions.
68. Fluid-governors—
69. Car-supported pump,
70. Counterweight.
71. Emergency-cables.
72. Cable-releasers.
73. Car brakes and catches—
74. Door-controlled,
75. Landing-chairs—
76. Car-supported,
77. Driven catch devices—
78. Rotating-gear,
79. Well-supported,
80. Car-supported—
81. Cable-controlled—
82. Positive—
83. Rail-side,
84. Sliding,
85. Rail-face,
86. Rail-side—
87. Eccentric,
88. Wedge,
89. Speed-controlled—
90. Rail-side—
91. Vertically-pivoted,
92. Operator-controlled—
93. Rail-side.
94. Counterbalances.
95. Guides—
96. Mine cross-heads.
97. Railway-car locks.
98. Well-obstruction devices.

188.—RAILWAY-BRAKES.

16. Automatic—
17. Drawbar-actuated—
19. Centrifugal-governor,
18. Winding,
20. Push-rod actuated—
21. Winding.
22. Beams.
23. Brake-flange on wheel.
25. Brake-shoes—
26. Back-stiffeners,
27. Chills,
28. Composite faces,
29. Fasteners,
30. Non-metallic,
31. Rail,
32. Recessed faces,
69. Roller.
- Brakes.
- Conduit-slot.
- Disk on axle—
33. Brake-band,
34. Peripheral shoes,
35. Side shoes.
36. Electric—
- Magnetic-clutch—
- Winding-drum,
- Magnetic shoes,
- Solenoid-operated.

188.—RAILWAY-BRAKES—Continued.

- Fluid-pressure—
1. Automatic,
9. Brake-piston indicators,
10. Brake-release valves,
2. Derailment—
81. Frangible devices,
3. Direct,
4. Electric,
7. Engineers' valves,
11. Load-regulated valves,
5. Momentum-pump—
71. Governors,
12. Pressure-retainers,
83. Signals,
72. Speed-controlled,
73. Strainers and drain-cups,
13. Train-pipe couplings,
14. Train-pipe release-valves,
8. Train-pipe stop-cocks,
15. Triple valves,
6. Vacuum.
40. Hand-levers—
- Ratchet-drum,
41. Ratchet-segment.
42. Hangers—
70. Non-chattering.
84. Load-regulated.
43. Locomotive—
44. Connected-series,
45. Shoes between drivers.
46. Positive-lock.
47. Rail—
- Grippers—
48. Automatic,
74. Rotary.
76. Safety-catches.
77. Setting devices.
49. Slack-adjusters—
51. Ratchet-driven screw.
52. Staffs—
53. Friction-clutch handles,
54. Geared,
55. Locking-ratchets,
56. Ratchet-handles—
57. Pivoted,
58. Screw,
59. Winding attachments.
60. Top shoes.
61. Train-operated—
62. Rotary shafts,
63. Winding.
64. Wheel and rail—
65. Chock-block.
- Winding—
66. Pneumatic-shift.
67. Winding-axle.
68. Winding-drum.

189.—METALLIC BUILDING STRUCTURES.*

1. Buildings—
3. Bins,
4. Greenhouses,
5. Jails—
6. Rotary,
- Doors—
7. Boltwork—
8. With indicators,
9. Gratings—
10. Connections,
2. Portable.
11. Portable towers.
12. Skeleton towers—
13. Arrangement—
17. Tanks,
18. Windmills,
16. Derricks,
14. Elevating,
15. Tilting,
19. Structure,
- Details—
20. Brace adjustments,
21. Caps and bases.
22. Electric-wire supports.
- 22.5. Sheet-piling.
23. Poles and posts—
- 23.1. Piles,
24. Compound,
25. Multiple supports,
26. Sectional,
27. Insulated parts,
28. Bases—
29. Anchored—
30. Auger,
- 30.5. Key-locked,
31. Expanding,

*See Definitions of Revised Classes.

189.—METALLIC BUILDING STRUCTURES—Continued.**Poles and posts—Continued.**

- 31.1. Braced—
- 31.2. Compound,
- 31.3. Truss,
- 31.4. Strut,
- 31.5. Tie,
32. Protectors,
33. Cross-arms.
90. **Land-anchors—**
91. Augers,
92. Expanding,
80. **Fire-shields—**
81. Collapsible.
43. **Stairs—**
44. Spiral.
46. **Doors—**
52. Theater-curtains,
- Thermal-control—
- Horizontally-sliding,
- Vertically-sliding,
- Horizontally-swinging,
- Vertically-swinging,
51. Sectional,
53. Panels.
64. **Windows—**
65. Weatherproofing,
66. Double-movement—
67. Sliding-pivot,
68. Swinging-frame,
69. Swinging-sash—
70. Laterally-sliding weather-strips,
- Thermal-control,
- Vertically-sliding sash—
73. Movable or removable guards,
- Thermal-control,
75. Frames,
76. Sash—
77. Pane supports and fastenings—
- Removable,
79. Guards.
54. **Shutters—**
55. Awnings,
56. Roll—
57. Operating devices,
58. Thermal-control,
61. Registering-slide,
59. Horizontally-sliding,
60. Vertically-sliding,
- Slats—
62. Pivoted,
63. Fixed.
45. **Thermally-controlled devices.**
82. **Grilles—**
83. Composite,
84. Integral,
- Securing devices.
37. **Girders.**
38. **Columns—**
39. Compound,
40. Wood and metal,
41. Shapes,
42. Caps and bases.
85. **Metal sheathing—**
86. Overlapping ends—
87. Cornice,
88. Securing devices—
89. Cornice.
34. **Structural units—**
35. Clips or fasteners,
36. Joints and connections—
- 36.2. Crossed rod or wire joints—
- 36.3. Removable-clip,
- 36.4. Tie.

190.—BAGGAGE.*

1. **Convertible—**
2. Bed,
3. Bureau—
4. Top and front opening—
5. Compartment-top,
6. Front-opening—
7. Compartment-front,
8. Chair,
9. Shelved—
10. Desk-flap,
11. Desk or table—
12. Camp kits,
13. Wardrobe—
14. Extensible—
15. Telescopio.
16. **Sample-cases—**
17. Link-supported tray.

190.—BAGGAGE—Continued.

19. **Trunks—**
20. Circular-end,
21. Extensible and sectional—
22. Telescopio,
23. Wall,
24. Frames and interior braces,
25. Reinforcing-strips,
26. Protecting-harness,
27. Harness,
28. Valances,
29. Tray movers and supporters—
30. Lid-operated movement,
31. Pivoted-tray—
32. Vertical-pivot,
33. Sliding-tray,
34. Link connections and props,
35. Trays,
36. Followers,
37. Corner shields and buffers,
38. Supporting devices,
39. Handles,
40. Materials.
41. **Traveling-bags—**
42. Combined,
43. Frameless and folding,
44. Extensible—
45. Telescopic—
46. Auxiliary-opening,
47. Rack-fastener,
48. Top-opening,
49. Frames—
50. Stays,
51. Compartments and partitions—
52. Exterior and auxiliary,
53. Materials and patterns,
54. Frame and bag-leather joints,
55. Bag-fastening handles,
56. Lock-plate handle-fastenings,
57. Handles—
58. Fasteners,
59. Strap-loop fasteners,
60. Article-attachers,
61. Safety-attachers.

191.—ELECTRICITY—TRANSMISSION TO VEHICLES.*

1. **Miscellaneous.**
2. **Systems of distribution—**
3. Convertible, multiple current-source—
4. Internal and external,
5. Alternating-direct,
6. Sectional,
7. Alternating-alternating,
8. Safety cut-out.
9. **Drawbridge and transfer-table.**
10. **Magnetic induction.**
11. **Vehicle in series.**
12. **Flexible extension.**
13. **Plate-conductor.**
14. **Sectional conductor—**
15. Normally-live section,
- Normally-dead section—
16. Magneto-mechanical circuit-controller,
17. Magnetic circuit-controller—
18. Magnet on vehicle—
19. Traveling-controller,
20. Mechanical circuit-controller—
21. Deformable-conductor.
22. **Conductors—**
23. Conduit—
24. Asymmetric,
25. Closing,
26. Draining,
27. Heated,
28. Special modifications,
29. Third-rail—
30. Protected—
31. Closing,
32. Supports,
33. Trolley—
34. Non-underrunning,
35. Guarded,
36. Special intersections,
37. Crossings,
38. Switches,
39. Section-insulators,
40. Supports—
41. Catenary,
42. Combined ears and insulators,
43. Ears—
44. Splices.

191.—ELECTRICITY—TRANSMISSION TO VEHICLES—Continued.

45. **Collectors—**
46. Convertible,
47. Bar,
48. Conduit-plow,
49. Third-rail shoe,
50. Trolley—
51. Common wire passing,
52. Detachable,
53. Non-underrunning,
54. Indefinite-path—
55. Bow,
56. Roller,
57. Multiple-contact—
58. Tandem,
59. Heads—
60. Swivel,
61. Wheel to head contactor,
62. Ice clearers or preventers,
63. Wheels,
64. Poles—
65. Frame,
66. Stands—
67. Fluid-pressure erector,
68. Spring-erector—
69. Torsion,
70. Tension or compression,
71. Rope-protectors,
72. Guards and finders—
73. Constantly-operative—
74. Fixed,
75. Spiral-cam replacer,
76. Star-wheel,
77. Normally-operative—
78. Automatic,
79. Rope-retracted—
80. Lateral-swing,
81. Longitudinal-swing,
82. Normally-inoperative—
83. Automatic,
84. Rope-actuated,
85. Trolley-retrievers—
86. Erector-release—
87. Fluid-pressure erector,
88. Spring-erector—
89. Toggle,
90. Fluid-pressure retracted,
91. Spring-retracted—
92. Rope-actuated—
93. Slack take-up,
94. Weight-retracted,
95. Non-retracting trolley-stops.

192.—CLUTCHES.

22. **Ball.**
1. **Clutches.**
21. **Dog.**
2. Eccentric or wedge.
3. Expandible-segment.
18. **Fluid.**
4. Frictional and positive.
5. Lever-shoe.
6. Locking-pawl.
7. Longitudinally-movable, double-face.
8. Longitudinally-movable, single-face.
9. Longitudinally-movable, with projections.
10. **Multiple-disk.**
11. Radially-movable shoes.
12. Radially-movable shoes, opposing.
20. **Ratchet.**
13. **Split-ring.**
14. **Strap.**

193.—CONVEYERS.

29. **Chutes—**
34. Car-side type,
35. Counterweighted—
36. Equalizers,
40. Extensible,
41. Flexible,
32. Garbage,
45. Gates—
46. Pivoted,
39. Horizontally-swinging,
38. Laterally-movable,

* See Definitions of Revised Classes.

193.—CONVEYERS—Continued.

Chutes—Continued.

31. Mail,
30. Screening,
42. Spiral,
44. Switches,
37. Variable-elevation discharge,
33. Wall type,
43. Zigzag.
1. **Conveyers.**
2. **Endless—**
3. Adjustable-leg,
4. Belt—
26. Belt structure,
24. Feeders,
23. Guides,
25. Trippers,
27. Troughing-rollers,
5. Boot,
6. Bucket—
28. Bucket structure,
7. Bucket, with traction-rollers,
8. Flight,
9. Hook.
10. **Pneumatic—**
21. Stackers.
11. **Reciprocating.**
12. **Retransfer and weighing.**
13. **Screw.**
22. **Spouts.**
20. **Storehouse.**
14. **Thresher attachments—**
15. Foldable,
16. Laterally and vertically adjustable,
17. Oscillatory,
18. Vertically-adjustable.
19. **Trimmers.**

194.—CHECK-CONTROLLED APPARATUS.*

1. **Miscellaneous.**
4. **Anomalous check—**
5. Fluid-delivery.
6. **Check in circuit—**
7. Article-delivery.
8. Signal.
9. **Check-operated switch—**
10. Article-delivery,
11. Electric meters,
12. Exhibitors,
13. Fluid-delivery,
14. Induction-coils,
15. Phonographs,
16. Signal.
17. **Lock-releasing—**
18. Gravity—
19. Forwardly-turning released part—
20. Measuring instruments—
21. Scales,
22. Article-delivery—
23. Chance,
24. Endless-carrier—
25. Magazine,
26. Rotary-feed,
27. Sliding-pusher,
28. Exhibitors,
29. Fluid-delivery,
30. Game apparatus,
31. Phonographs,
32. **Reciprocating released part—**
33. Measuring instruments—
34. Pull-testers,
35. Scales,
36. Strike-testers,
37. Article-delivery—
38. Endless-carrier,
39. Sliding-pusher,
40. Article-securing stands,
41. Chance and game apparatus,
42. Exhibitors,
43. Fluid-delivery,
44. Telephones,
45. **Reset turning released part—**
46. Measuring instruments—
47. Scales,
48. Article-delivery,
49. Article-securing stands,
50. Chance and game apparatus,
51. Door and lid locks,
52. Exhibitors,
53. Fluid-delivery,

194.—CHECK-CONTROLLED APPARATUS—Continued.

Lock-releasing—Continued.

- Thrust—
54. Pivoted-detent—
55. Reciprocating coin-mover—
56. Measuring instruments,
57. Article-delivery—
58. Sliding-pusher,
59. Door and lid locks,
60. Fluid-delivery,
61. Turning coin-mover—
62. Measuring instruments,
63. Article-delivery,
64. Article-securing stands,
65. Door and lid locks,
66. Fluid-delivery,
71. Article-delivery,
67. Reciprocating-detent—
68. Article-delivery,
69. Reciprocating coin-mover.
70. Turning coin-mover.
72. **Connectors—**
73. Gravity,
74. Check—
- Reciprocating and turning parts—
75. Article-delivery,
76. Chance and game apparatus,
77. Fluid-delivery,
78. Reciprocating parts—
79. Article-delivery—
80. Sliding-pusher,
81. Chance and game apparatus,
82. Fluid-delivery,
83. Turning parts—
84. Concentric—
85. Article-delivery,
86. Chance and game apparatus,
87. Fluid-delivery,
88. Article-delivery,
89. Chance and game apparatus,
90. Fluid-delivery,
91. Article-delivery.
92. **Lock-preventing—**
93. Article-delivery.
94. **Check-rotated wheel.**
95. **Shutter.**
96. **Check-engaged alarm.**
97. **Fraud-preventives—**
98. Check-exhibitors,
99. Combined size and material testers.
100. Material-testers—
101. Magnets,
102. Size-testers,
103. Weight-testers.
2. **Miscellaneous, article-delivery.**
3. **Miscellaneous, fluid-delivery.**

195.—ALCOHOL.

1. **Beer—**
4. Preserving—
5. Pasteurizing,
2. Purifying—
3. Finings and shavings.
6. **Distilled spirits—**
7. Aging—
- Apparatus—
9. Rocking racks,
10. Processes,
11. Apparatus—
12. Stills—
13. Columns,
14. Doublers and worms,
16. Vapor-filters,
15. Rectifying processes.
7. **Fermenting—**
- Apparatus—
18. Vats,
19. Vent-bungs,
20. Processes.
21. **Malting—**
- Apparatus—
22. Cylinders, rotary,
23. Malt-stirrers,
24. Processes.
25. **Mashing—**
- Apparatus—
26. Digesters and disintegrators,
27. Fore-mashers,
28. Mash-tubs—
29. Rakes,
30. Tubular rakes,

195.—ALCOHOL—Continued.

Mashing—Continued.

31. Hops,
32. Processes,
33. Wort—
34. Hopping,
35. Purifying.
36. **Wines.**

196.—MINERAL OILS.

1. **Apparatus—**
2. Reducing gravity,
3. Stills—
6. Bottoms,
5. Condensers,
7. Feeders,
8. Films,
9. Furnaces and flues,
10. Heads,
11. Jackets,
12. Rotary,
13. Series,
4. Stirrers and scrapers,
18. Supplementary heating,
14. Tubular,
15. Utilizing gases and residue,
16. Vacuum,
17. Vapor-outlets.
21. **Coal-oil—**
- Processes,
19. Retorts—
20. Rotary.
22. **Compositions.**
24. **Paraffin.**
25. **Processes—**
26. Chemical,
27. Injecting gases,
28. Residuum,
29. Washing and filtering.

197.—TYPE-WRITING MACHINES.*

1. **Miscellaneous.**
5. **Double.**
2. **Book—**
3. Work-supports.
4. **Cryptographic.**
7. **Logotype.**
8. **Music.**
9. **Stenographic.**
6. **Embossing or penetrating—**
- 6.1. Point-printers for the blind,
- 6.2. Movable font-carrier—
- 6.3. Electroical,
- 6.4. Rotary—
- 6.5. Keyboard—
- 6.6. Separately-striking character.
- 6.7. Separately-striking character.
10. **Annular printer.**
11. **Permutation.**
12. **Power-driven—**
13. Electric—
14. Bar—
15. Selectors,
16. Pneumatic,
17. Mechanical—
18. Bar,
19. Rotating-wheel.
20. **Machine-operators—**
21. Perforated-tape.
22. **Bar—**
23. Hammer,
24. Inking—
25. Traveling-pivot,
26. Thrust,
27. Front-strike,
28. Top-strike,
29. Actions—
30. Accelerating,
31. Disconnecting,
32. Toggle,
33. Bar-locks,
34. Links,
35. Returning-springs,
36. Starters,
37. Bars—
38. Heads—
39. Pivoted,
40. Bearings—
41. Roller,
42. Dust-guards,
43. Hanger-supports,
44. Rests,
45. Type-guides.

* See Definitions of Revised Classes.

197.—TYPE-WRITING MACHINES—

Continued.

44. Index-wheel—
45. Platen-striking,
46. Striking letter,
47. Wheel-striking.
48. Key-wheel—
49. Hammer,
50. Spherical,
51. Helical-shift,
52. Platen-striking,
53. Striking letter—
54. Flexible-plate,
55. Wheel-striking.
56. Plate—
57. Flexible,
58. Rectilinear,
59. Rotary.
60. Carriages—
61. Rocker-platen,
62. Driving-springs,
63. Margin-regulators,
64. Retarders,
65. Returns—
66. Electrical,
67. Pneumatic,
68. Spring,
69. Roller-bearings,
70. Stops.
71. Case-shifts—
72. Double-shift,
- Platen—
73. Vertical-shift,
- Type-bar—
74. Hanger-support,
75. Pivoted-head,
76. Rotatable-head,
77. Selectors,
78. Key attachments,
79. Platen-locks—
80. Key-lever,
81. Stops.
82. Feed mechanism—
83. Silent-key,
84. Variable-spacing,
90. Screw-feed,
- Escapement—
85. Parallel pawls,
86. Single-pawl,
- Transverse—
87. Pawls,
88. Limber-pawl,
89. Force-feed,
91. Back-spacers,
92. Releases—
93. Clutch,
94. Pawl,
95. Pinion,
96. Rack,
97. Universal bars.
98. Keyboards—
99. Permutation,
100. Key arrangement,
101. Hand-guides,
102. Key caps and stems—
103. Cushion-caps,
104. Rotatable caps,
105. Screens.
106. Key-levers.
107. Key-locks.
108. Line-locks—
109. Escapement,
110. Key-lever,
111. Type-bar,
112. Universal-bar.
113. Liners.
114. Line-spacing—
115. Combined space and release,
116. Condensed-billing—
117. Lever-operated,
118. Traveling-stop,
119. Indicating-scales,
120. Automatic,
121. Irregular—
122. Detent-release,
123. Ratchet-release,
124. Flat-platen,
125. Platen wear-distributors.
126. Manifoldings.
127. Paper-feeding—
128. Condensed-billing,
129. Divided-platen,
130. Sheet-magazine,
131. Sheet, carbon-roll,
132. Tally-strip,
133. Web—
134. Carbon-roll,
135. Card-holders—
136. Platen-carried,
137. Feed-bands,
138. Feed-rolls,
139. Fingers,
140. Edge-gages,
141. Page-end locks,

197.—TYPE-WRITING MACHINES—

Continued.

- Paper-feeding—Continued.
142. Side-edge gages,
143. Tables.
144. Platens—
145. Detachable,
146. Endwise-adjustable,
147. Noiseless,
148. Flat,
149. Printing-plane adjusters.
151. Ribbon mechanism—
152. Book,
153. Duplicating,
154. Visible—
155. Case-shift equalizing,
156. Multiple-ribbon,
157. Varied-path—
158. Automatic,
159. Vertically-reciprocating vibrator,
160. Automatic-reverse—
161. Bulk,
162. Direct-pull,
163. Double-feed,
164. Gear-operated,
165. Ribbon-projection,
166. Double-feed—
167. Automatic,
168. Endless-ribbon,
169. Disconnecting,
170. Guides,
171. Ribbon-inkers,
172. Ribbons,
173. Signals—
174. Action-locks,
175. Spools.
150. Inking devices.
176. Tabulators—
177. Column-selecting,
178. Denominational,
179. Stop-setting.
180. Attachments—
181. Erasing devices,
182. Reflectors.
183. Buffers.
184. Cleaners—
185. Automatic.
186. Frames.
187. Indicators—
188. Letter-space,
189. Page-end,
190. Printing-point,
191. Tabulating,
192. Bells.
193. Machine-locks.
194. Scales.

198.—MATRIX-MAKING.

2. Dies.
3. Miscellaneous.
5. Reciprocating die-carrier, mechanical.
6. Rotary die-carrier.

199.—TYPE-BAR MAKING.

- Bar-machines—
5. Plural,
6. Single.
14. Brushing devices.
7. Circulating-machines.
8. Guide-machines.
4. Justifying devices.
16. Justifying mechanism.
9. Machine attachments.
12. Matrices.
15. Melting-pots.
10. Miscellaneous machines.
13. Molds and cutters.
11. Rotary machines.
2. Type-bars.

200.—ELECTRICITY—CIRCUIT MAKERS AND BREAKERS.

27. Circuit-closers—
28. Burglar,
34. Float-operated,
29. Letter-box,
30. Lock,
31. Thermal—
32. Fluid,
33. Fusible,
35. Weight-controlled.
1. Controllers—
26. Brush-connectors,
24. Brush-holders,
25. Brushes,
23. Combined brushes and holders,
2. Combined-fuse—
3. Knife-switch,
6. Combined rotary and translating contacts,
5. Compressible rheostats,
4. Liquid rheostats,
7. Multiple-switch rheostats.
20. Operating means—
21. Plural-switch—
22. Cam-operated,
8. Rotary-contact—
9. Combined types,
14. Dial-switch—
15. Electromagnetic-release—
16. Plural-switch,
17. Plural-switch,
18. Knife,
10. Radial contact-pressure—
13. Arc extinguishing and preventing,
12. Commutators and collectors,
11. Plural-switch,
19. Translating-contact.

201.—METAL-ORNAMENTING.*

1. Miscellaneous.
2. Nurling.
3. Die-pressing—
4. Roller-die,
5. Roller-and-bed,
6. Dies and die-holders.
- Stippling—
7. Reciprocating-tool,
8. Rotary-tool.

202.—CHARCOAL AND COKE.

- Charcoal—
10. Kilns,
2. Processes,
3. Retorts.
- Coke—
4. Ovens—
5. Chargers and dischargers.
6. Doors,
7. Dumping-bottoms,
8. Processes,
9. Retort-ovens.

203.—AMMONIA, WATER, AND WOOD DISTILLATION.

1. Ammonia.
- Turpentine—
3. Apparatus,
4. Processes.
5. Water.
6. Wood.

204.—ELECTROCHEMISTRY.

- Batteries—
49. Anodes,
54. Carbon,
50. Cathodes,
52. Connectors,
51. Diaphragms,
47. Earth,
48. Gas,

* See Definitions of Revised Classes.

204.—ELECTROCHEMISTRY—Contd.**Batteries—Continued.**

33. One-fluid—
55. Iron,
34. Zinc—
39. Chlorids,
37. Chromates,
35. Nitrates,
38. Oxids,
36. Sulfates,
46. Piles,
29. Secondary,
40. Two-fluid—
56. Iron,
41. Zinc—
45. Chromates,
42. Nitrates,
43. Sulfates—
54. Gravity,
44. Vessels and supply devices.
64. **Electric furnaces.**
- Electrodes—**
65. Carbon.
- Electrolysis—**
1. Aqueous-bath—
2. Alloys,
3. Aluminum,
4. Anodes,
6. Apparatus,
7. Cathodes—
8. Cleaning,
9. Metallizing,
58. Chemicals—
59. Alkalis and chlorin,
60. Bleaching and disinfecting
61. Liquors,
62. Chlorates,
63. Dyes and pigments,
10. Copper,
11. Depolarizing and burnishing,
12. Gold
13. Multiple,
14. Nickel,
15. Ores,
57. Refining metals,
16. Silver,
17. Tin,
18. Zinc,
28. Diaphragms,
19. Fused-bath—
20. Aluminum,
21. Sodium,
24. Purifying liquids—
26. Alcohol,
25. Water.
63. **Reduction.**
31. **Synthesis—**
62. Carbids,
32. Ozone.
27. **Tanning.**

205.—METAL-DRAWING.*

1. **Miscellaneous.**
9. **Tube-welding—**
10. Laterally-movable drawhead,
11. Die and mandrel,
12. Processes.
3. **Bars and tubes—**
4. By thrust,
5. Hydraulic-drive,
6. Screw-drive,
7. Backing-mandrel,
8. Processes.
16. **Wire—**
13. Multiple-die—
14. Tandem,
15. Rotary,
17. Covering—
18. Processes,
19. Lubricating,
20. Drawing-drums,
21. Processes.
25. **Die-holders.**
26. **Dies—**
27. Skelping,
28. Welding,
29. Wire.
22. **Appliances—**
23. Tags,
24. Tongs.
2. **Processes.**

206.—SPECIAL RECEPTACLES AND PACKAGES.*

1. **Receptacles—**
3. Ammunition,
4. Camp and luncheon kits,
5. Eyeglass or spectacle—
6. Hinged parts,
7. Garment,
8. Hat and headwear—
9. Racks, frames, and rings,
11. Fur,
12. Medicine-chests,
13. Musical instruments—
14. Violin,
15. Phonograph-cylinders,
16. Tools and appliances—
17. Bits and drills,
- 17.5. Syringes,
18. Watch-movement,
19. Sacramental,
20. Match-safes—
21. Single-delivery—
22. Grooved-roller,
23. Grooved-slide—
24. Horizontal-movement,
25. Picker-arm,
26. Sliding-pusher—
27. Pocket,
28. Baffle,
29. Match-packages,
30. Side-supported,
31. Box-holders and convertible boxes,
32. Withdrawal-igniting,
33. Pocket—
34. Withdrawal-igniting,
35. Cigar-cutters and wind-guards,
36. Scratchers and wind-guards,
37. Pocket and personal use—
38. Combination,
39. Ticket-cases—
40. Ejecting,
41. Cigars and tobacco,
42. Pellets and granules,
43. Hypodermic syringes, etc.,
44. Display—
45. Terraced or stepped shelves,
2. Acid-proof.
10. Insect-proof.
46. **Packages—**
47. Combination—
48. Matches with cigarettes, etc.,
49. Embroidery, laces, and ruching,
50. Cloth bolts, boards, etc.,
51. Ribbons, braids, and trimmings—
52. Rolls or spools—
53. Inclosed,
54. Clamps—
55. Centrally-attached,
56. Layer-retained,
63. Stationery,
- 63.2. Surgical supplies—
- 63.3. Ligatures,
- 63.4. Vaccine-points,
64. Thread,
66. Needles and pins,
67. Pencils, etc.,
68. Incandescent mantles,
69. Rubber bags and tubing,
70. Watch-springs,
71. Metallic-leaf,
65. Multiple-article—
66. Nested, stayed, or inter-braced,
56. Dispensing—
57. Paper sheets,
58. Paper-rolls,
59. Rolls and reels,
60. Plates and sheets—
61. Fly-paper,
62. Fragile and sensitive.

207.—PLASTIC METAL WORKING.*

1. **Miscellaneous.**
2. **Die-expressing—**
3. Plunger and mandrel—
4. Tubular-mandrel,
5. Bridge-mandrel,
6. Integral—
7. Fixed-plunger,
8. Rotary-plunger,
9. Plunger,
10. Processes.

207.—PLASTIC METAL WORKING—Continued.

11. Gravity-molding—
12. Traveling-mold—
13. Rotary,
14. By rolls.
15. Containers.
16. Cooling and heating.
17. Dies—
18. Variable-opening.
19. Mandrels.

208.—VELOCIPEDES.

11. **Bearings.**
- Bicycle, propulsion—**
17. Crank and chain—
153. Chain adjustments,
154. Changeable-speed gear,
50. Crank and gear—
74. Normally-fixed stud-plate,
48. Planetary,
49. Reverting-train,
46. Rotating side shaft,
47. Train—
18. Internal-rack,
20. Lever and crank,
19. Lever and ratchet,
21. Lever, crank and gear, or chain,
23. Miscellaneous,
22. Rack-and-pinion.
- Bicycles—**
5. Header-preventers.
13. **Brakes—**
57. Back-pedaling,
60. Band,
58. Pneumatic,
59. Roller.
45. **Carrier.**
145. **Casings—**
146. Chain—
147. Attached,
148. One-piece,
149. Radially-separable.
24. **Child's seats.**
151. **Cleaner attachments—**
152. Chain.
130. **Combined handle-bar and post adjustment.**
27. **Coupling-bars.**
9. **Crank-clutches.**
- Cranks—**
69. Variable-leverage.
68. **Cranks and crank-shafts.**
3. **Dicycles.**
2. **Epicycles.**
93. **Frames—**
98. Crank-hangers,
107. Depressible-seat,
104. Drop convertible,
105. Folding,
96. Forks—
97. Springs,
102. Heads—
103. Spring,
95. Joints,
106. Knockdown,
110. Ordinary,
111. Parallel seats,
113. Polycycles,
155. Pumps,
94. Spring,
101. Spring-axles,
100. Spring saddle-supports,
108. Tandem—
109. Convertible,
112. Trailing wheels,
99. Yokes.
115. **Handle-bars—**
123. Automatically-collapsing,
122. Automatically-detachable,
116. Continuous adjustable—
- Locks—
117. Cam,
118. Screw-and-dog,
119. Spring,
124. Folding,
120. Sectional, adjustable—
121. Simultaneously,
125. Spring.
126. **Handles—**
127. Auxiliary,
128. Pneumatic,
129. Strip.
67. **Harness.**
- Holders—**
- Brackets—
86. Fixed arm or jaw,
87. Pivoted arm or jaw,

* See Definitions of Revised Classes.

208.—VELOCIPEDES—Continued.**Holders—Continued.****Racks—**

- 90. Frame-supports,
- 88. Wheel or tire supports—
- 89. Tilting-shoe,
- Stands—**
- 91. Floor-supported,
- 92. Wall-supported.
- 139. **Miscellaneous.**
- 140. **Mud-guards—**
- 141. Wheel—
- 142. Rim—
- 143. Limp,
- 144. Sectional.
- 70. **Pedals.**
- Polycycles—**
- 42. Figure.
- Polycycles, propulsion—**
- 40. Axle-couplings,
- 32. Crank and chain,
- 51. Crank and gear—
- 54. Planetary,
- 55. Reverting-train.
- 52. Rotating side shaft,
- 53. Train—
- 30. Internal-rack,
- 33. Crank and pitman,
- 34. Lever and crank,
- 35. Lever, crank and gear, or chain,
- 36. Lever and ratchet,
- 38. Lever, ratchet and gear, or chain,
- 37. Miscellaneous,
- 131. Rack-and-pinion.
- Posts—**
- 132. Mechanical-adjustment,
- Props—**
- 156. Fixed,
- 75. Pivoted—
- 76. One-leg—
- 77. Extension hinged,
- 78. Extension sliding,
- 79. Lever-actuated,
- 80. Spring-locked,
- 81. Universal-joint,
- 82. Two (or more) legs—
- 83. Cam (or gear) spread,
- 84. Lever-spread,
- 85. Spring-spread,
- 86. Sliding—
- 87. One-leg,
- 88. Two (or more) legs.
- 138. **Rests.**
- 41. **Rowing-machines.**
- 63. **Saddle-clamps.**
- Saddle-posts—**
- 62. Rigid,
- 61. Spring.
- 15. **Saddles—**
- 64. Pneumatic,
- 65. Rigid-seat,
- 66. Sectional.
- 150. **Shields.**
- 157. **Sleds—**
- 158. Stepper—
- 159. Foot-driven,
- 160. Traction-wheel—
- 161. Foot-driven—
- 162. Converted-bicycle.
- 114. **Steering devices.**
- Steering-wheel—**
- 136. Automatically-governed,
- 137. Locking.
- 26. **Steps and foot-rests.**
- 133. **Telescopic-tube clamps—**
- 135. Split-collar,
- 134. Tubular-wedge.
- 71. **Toe-clips.**
- 1. **Unicycles.**

209.—CARBONATING BEVERAGES.

- 7. **Beverages.**
- 1. **Carbonators—**
- 10. Beer—
- 11. Atomizer,
- 12. Pressure,
- 13. Pump,
- 3. Rotary-mixer,
- 14. Spray.
- 8. **Carbonators and generators—**
- 9. Portable.
- 15. **Gas collection.**
- 16. **Gas distribution.**
- 4. **Gas-generators—**
- 6. Acid-feed siphon,
- 17. Furnace,
- 5. Rotary-stirrer.

210.—WATER PURIFICATION.

- 23. **Boiler-compound holders.**
- 22. **Boiler compounds.**
- Filters—**
- 37. Barrel,
- 2. Beer,
- 25. Centrifugal—
- 29. Agitating or conveying—
- 30. Rotary-stirrer,
- 31. Stationary-stirrer,
- 34. Discharging residue—
- 35. Bottom-discharge,
- 32. Driving mechanism—
- 33. Motor,
- 27. Fluid-treatment—
- 28. Liquid,
- 26. Honey-extractors,
- 36. Receiving filtrate,
- 19. Chemical-feeders,
- 3. Cistern-cleaners,
- 4. Cistern-supply,
- 5. Decanters,
- 6. Faucet,
- 7. Filtering-faucets,
- 8. Granular-bed,
- 9. Materials,
- 10. Oil,
- 11. Porous-wall,
- 12. Portable,
- 13. Pressure,
- 14. Rotary-bed,
- 15. Service-pipe,
- 16. Strainers,
- 17. Submerged,
- 18. Systems.
- 1. **Miscellaneous.**
- 24. **Plural-receptacle.**
- 21. **Steam heater and filter.**

211.—STORE FURNITURE.

- 1. **Bag and twine holders—**
- 2. Bag-holders.
- 6. **Bins.**
- 7. **Cabinets—**
- 8. Delivering,
- 9. Grocers',
- 10. Spool,
- 41. Type—
- 42. Delivering.
- 11. **Counters—**
- 12. Attachments.
- 34. **Display-cards.**
- 13. **Display-forms.**
- 14. **Display-racks—**
- 15. Adjustable-arm,
- 17. Hanging,
- 16. Inclosed,
- 18. Roll,
- 20. Rotary—
- 21. Inclosed,
- 22. Sample-sheet—
- 23. Rotary.
- 24. **Display-stands.**
- 28. **Display-trays.**
- 43. **Hand-stamp racks.**
- 35. **Pattern-exhibitors.**
- 36. **Post-office furniture.**
- Sample-holders—**
- 40. Box-attached.
- 29. **Serving apparatus—**
- 30. Printing attachment,
- 31. Roll-holders—
- 32. Cutting attachment,
- 33. Feeding attachment.
- 27. **Shelving.**
- 25. **Show-cases—**
- 26. Lid-lifters.
- 37. **Ticket-cases—**
- 38. Gravity-feed,
- 39. Spring-clasp.

212.—TRAVERSING HOISTS.*

- 1. **Miscellaneous.**
- 2. **Welghing.**
- 3. **Floating.**
- 4. **Door-lifters.**
- 5. **Track-straddling—**
- 6. Self-propelled.
- 7. **Skidding.**
- 8. **Vertically-swinging hoist-frame—**
- 9. Load-handling.

212.—TRAVERSING HOISTS—Contd.

- 10. **Traveling cranes—**
- 11. Load-handling,
- 12. Horizontally-swinging bridge,
- 13. Gantry—
- 14. Load-handling,
- 15. Overhanging-end—
- 16. Flexible-bridge,
- 17. Jib,
- 18. Overhead—
- 19. Flexible-bridge,
- 20. Bridge-mounted hoist-motor,
- 21. Electric—
- 22. Multiple-track,
- 23. Stationary-motor—
- 24. Cable-driven—
- 25. Fluid,
- 26. Traveling-motor, fluid-hoist,
- 27. Traveling-motor, cable-shift.
- Rotary cranes—**
- 29. Combined crane and support-rack,
- 30. Fluid—
- 31. Swinging hoist-motor, cable-hoist,
- 32. Swinging hoist-motor, trolley-mounted,
- 33. Vertically-movable jib—
- 34. Mast-jack,
- 35. Vertically-swinging jib,
- 36. Line-staff driven,
- 37. Vehicle-wheel power,
- 38. Self-propelled,
- 39. Automatic-stop,
- 40. Load-suspension,
- 41. Load-handling—
- 42. Grab,
- 43. Portable—
- 44. Grab,
- 45. Sling,
- 46. Portable, horizontally-pivoted mast,
- 47. Opposing jibs,
- 48. Counterbalanced—
- 49. Portable,
- 50. Automatic-sling—
- 51. Portable,
- 52. Variable-radius—
- 53. Portable,
- 54. Variable-radius—
- 55. Extensible-jib,
- 56. Trolley,
- 57. Vertically-movable jib,
- 58. Vertically-swinging jib—
- 59. Portable,
- 60. Lever, first-class,
- 61. Fixed-radius—
- 62. Lever, first-class,
- 63. Trolley,
- 64. Vertically-movable jib,
- 65. Portable,
- 66. Sluicing mechanism—
- 67. Bull-wheel,
- 68. Gear-sector,
- 69. Sluicing-platform,
- 70. Pivots, steps and mast-caps.
- Linear—**
- 71. Cable-ship-coaling type,
- 72. Shiftable-track—
- 73. Longitudinally-movable,
- 74. Tilting,
- 75. Cable—
- 76. Load-handling—
- 77. Draft-rope—
- 78. Dumping—
- 79. Double-tackle,
- 80. Grab,
- 81. Sling,
- 82. Load-suspension—
- 83. Grab,
- 84. Sling,
- 85. Automatic-stop,
- 86. Draft-rope, hoist-rope traverse—
- 87. Divided hoist-rope,
- 88. Hook-lowering,
- 89. Running-track,
- 90. Cable-return,
- 91. Gravity-return—
- 92. Cable,
- 93. Draft-rope, independent traverse—
- 94. Anchored hoist-rope.
- 95. Hook-lowering,
- 96. Load-suspension—
- 97. Hoist, carry and lower,
- 98. Running-rope,
- 99. Sheave-catch—
- 100. Pivoted cable-extension,
- 101. Sheave-frame catch—
- 102. Sliding,
- 103. Pivoted—
- 104. Double,
- 105.

* See Definitions of Revised Classes.

212.—TRAVERSING HOISTS—Contd.

- Linear—Continued.
- Cable—Continued.
- Load-suspension—Contd.
- 106. Rope-catch—
- 107. Sliding,
- 108. Pivoted—
- 109. Double,
- 110. Rope-grip—
- 111. Variable-elevation—
- 112. Carriage-release,
- 113. Side-draft,
- 114. Coacting-sheave,
- 115. Ratchet-sheave,
- 116. Trips, stops, and knockers,
- 117. Rope-carriers—
- 118. Cable-stop operated,
- 119. Trolley-supported,
- 120. Carrier-sheave operated,
- 121. Permanently-spaced,
- 122. Carriage-holders, track-clamp,
- 123. Pulley-changers,
- 124. Self-propelled—
- 125. Load-handling—
- 126. Electric—
- 127. Grab,
- 128. Guide-bar—
- 129. Grab,
- 130. Ladle,
- 131. Electric—
- 132. Automatic-stop,
- 133. Hanging-cable traverse,
- 134. Non-motor traverse—
- 135. Load-handling—
- 136. Discharging—
- 137. Automatic,
- 138. Fluid-hoist,
- 139. Lever-hoist,
- 140. Surface—
- 141. Self-propelled,
- 142. Drum—
- 143. Intermittent-grip.
- 144. Jibs and masts.
- 145. Auxiliary supports.

213.—RAILWAY DRAFT APPLIANCES.

- 39. Buffers—
- 60. Drawbar-actuated,
- 2. Fluid-pressure.
- 3. Bumpers—
- Rigid.
- Couplings—
- 35. Arrow-head and jaws,
- 36. Bails,
- 37. Beveled link and fixed catch,
- 38. Beveled link and swing-catch,
- 61. Chains,
- 40. Combined air-brake,
- 4. Combined drawbar and hook—
- With link,
- 43. Headed link and V-slot,
- 44. Hook and catch,
- 45. Hook and link—
- 5. Combined,
- 65. Janney type—
- 6. Emergency-releases,
- 7. Gravity-locks,
- 8. Horizontal sliding latches,
- 9. Knuckle-openers,
- Knuckle-openers and locks—
- 10. Combined,
- 11. Pivoted horizontal latches,
- 12. Pivoted vertical latches,
- 13. Safety-brackets,
- 14. Vertical sliding pins,
- Link—
- 62. End-openers,
- 63. Handled,
- 15. Star-wheel detent,
- 47. Link-lifters,
- 49. Miller-hook—
- 66. Swing-heads,
- Pin-supports—
- 16. Balls,
- 51. Gravity,
- 52. Spring,
- 50. Pins and links,
- 54. Rolling-detent,
- 53. Rotary heads,
- 55. Sliding-detent,
- 56. Swing-pins,
- 57. Tools,
- 58. Train,
- 17. Twin jaws,
- 59. Uncoupling-levers.

213.—RAILWAY DRAFT APPLIANCES—Continued.

- 42. Drawbars—
 - 41. Continuous,
 - 64. Friction-buffers,
 - 18. Street-car.
 - Locomotives—
 - 19. Side-track push-rods.
 - 20. Street-car poles.
- 214.—LOADING AND UNLOADING.**
- 14. Elevated carriers—
 - 17. Non-lowering support.
 - 1. Loading and unloading—
 - 24. Bobbin-handling,
 - 23. Furnace-charging,
 - 2. Hay,
 - 3. Hoist and dump,
 - 4. Hoist, raised track, and dump,
 - 5. Load-binders,
 - 6. Pilers,
 - 7. Raised-track,
 - 8. Raised-track, track-end dump,
 - 9. Raised-track, track-end dump, tilting track-section,
 - 13. Scoop, hoist, carry, and dump,
 - 10. Shoveling devices,
 - 11. Tilting-platform,
 - 12. Vertical hoist and dump.

215.—BOTTLES AND JARS.

- 1. Bottle attachments—
- 2. Clip,
- 116. Nursing-bottle holders.
- 3. Bottle-cases.
- 8. Bottle-stoppers—
- 9. Cap—
- 10. Crimped,
- 11. Elastic,
- 12. Frangible,
- 13. Screw,
- 14. Disk,
- 15. Dose—
- 16. Droppers,
- 100. Ejectors,
- 17. Expanding—
- 18. Cam,
- 19. Screw,
- 20. Fasteners—
- 21. Bail—
- 22. Locking,
- 23. Cap—
- 24. Tie,
- 101. Expanding,
- 25. Spring—
- 26. Clip,
- 27. Wire,
- Internal—
- 28. Ball,
- 29. Extension—
- 30. Wire,
- 31. Plug,
- 32. Locks,
- 33. Pivoted—
- 34. Locking—
- 35. Bail,
- 37. Cam—
- 38. Plug,
- 39. Rotary,
- 40. Lever—
- 41. Lever and yoke,
- 42. Plug—
- 43. Slotted,
- 44. Top—
- 45. Slotted,
- 46. Wire,
- 47. Screw,
- 48. Spring—
- 49. Catch,
- 50. Plug—
- 51. Composite;
- 52. Screw,
- 53. Pullers,
- 54. Tube—
- 55. Valve—
- 56. Ball,
- 57. Rotary,
- 58. Screw,
- 102. Spring,
- 59. Vent,

215.—BOTTLES AND JARS—Continued.

- 60. Bottle-valves—
- 61. Spring,
- 62. Weight—
- 63. Pendent,
- 64. Float,
- 65. Guards—
- 66. Caps,
- 67. Fasteners,
- 68. Multiple,
- 103. Necks, separable,
- 114. Siphon-head—
- 115. Spring-controlled,
- 69. Valves and seats.
- 70. Bottles—
- 71. Compartment,
- 72. Indicating—
- 112. Internal,
- 113. Poison,
- 73. Jugs,
- 77. Necks—
- 78. Breakable—
- 105. Bottom-fillers,
- Stopper-fasteners—
- 106. Disk,
- 107. Ring,
- 108. Spring,
- Stoppers—
- Expanding,
- 110. Multiple,
- 111. Plastic,
- 79. Nesting,
- 117. Nursing.
- 80. Jar-closures—
- 81. Cap—
- 82. Grooved,
- 83. Ring,
- 84. Screw—
- 85. Inclines,
- 86. Ring,
- 87. Clamp—
- 88. Lever,
- 89. Screw,
- 90. Pivoted,
- 91. Spring—
- 92. Bow,
- 93. Inclines,
- 94. Packing,
- 95. Stoppers—
- 96. Expanding,
- 97. Plug—
- 98. Screw.
- 99. Jars—
- 104. Ejecting.
- 118. Spaced-wall.

216.—LABEL-PASTING AND PAPER-HANGING.*

- 1. Combined machines—
- 2. Label printing and affixing,
- 3. Envelop sealing and stamping.
- 4. Paper-hanging—
- 5. Coating and affixing apparatus—
- 6. Hand,
- 7. Affixing apparatus,
- 8. Surface preparation.
- 9. Machines—
- 10. Spool-labeling,
- 11. Selective,
- 12. Multiple-labeling—
- 13. Bottle neck and body,
- 14. Sample-card,
- 15. Sheet—
- 16. Rack-and-pinion feed,
- 17. Rack-and-pawl feed,
- 18. Escapement-feed,
- 19. Screw-feed,
- 20. Strip—
- 21. Severing—
- 22. Reciprocating-cutter—
- 23. Pusher-feed,
- 24. Four-motion feed,
- 25. Roller-feed—
- 26. Hand,
- 27. Rotary-tooth feed,
- 28. Perforation-feed,
- 29. Pivoted-cutter—
- 30. Scissors type—
- 31. Belt-conveyer feed,
- 32. Ribbon-feed,
- 33. Tearing,
- 34. Affixing-magazine, moving—
- 35. Pressure pad or plunger,
- 36. Presser-foam,
- 37. Rollers,
- 38. Wipers or brushes,

* See Definitions of Revised Classes.

216.—LABEL-PASTING AND PAPER-HANGING—Continued.

- Machines—Continued.**
 Affixing-magazine, moving—
 Continued.
 39. Flexible-wrapper,
 40. Revolving-article,
 41. Fluid-pressure,
 42. Affixing-magazine, station-
 ary—
 43. Adhesive applying or mois-
 tening—
 44. Fixed-roller,
 45. Moving-roller,
 46. Fixed reservoir or absorb-
 ent,
 47. Moving reservoir or ab-
 sorbent,
 48. Endless-belt,
 49. Spray or steam,
 50. Affixing-magazine, hand,
 51. Storage-magazine—
 52. Label-pickers—
 53. Nippers,
 54. Adhesive,
 55. Suction,
 Article-support—
 56. Table,
 57. Conveyer,
 58. Runway,
 59. Rotary,
 60. Roller.
Tools.
 62. **Processes.**

217.—WOODEN RECEPTACLES.*

4. **Tanks.**
 5. **Boxes—**
 127. Bottle-mailing cases,
 6. Block,
 7. Compartment—
 8. Folding—
 9. Display,
 10. Display,
 11. Display,
 12. Knockdown—
 13. Sectional,
 Folding—
 14. Horizontal and vertical
 pivot,
 15. Horizontal-pivot.
 16. Vertical-pivot,
 Crates—
 37. Bicycle—
 38. Folding,
 40. Fruit-box,
 42. Ventilating,
 43. Knockdown—
 44. Cylindrical and bilge,
 45. Sectional,
 Folding—
 46. Horizontal and vertical
 pivot,
 47. Horizontal-pivot,
 48. Vertical-pivot,
 Cylindrical,
 51. Wired slats,
 52. Cushioned—
 53. Padded,
 54. Spring—
 55. Spiral,
 17. Walls,
 18. Cells—
 19. Bottle—
 20. Cord,
 21. Plate,
 22. Strip,
 23. Bent,
 24. Clip,
 25. Cord,
 26. Plate—
 27. Cushioned,
 28. Pocket,
 29. Separable,
 30. Strip—
 31. Looking—
 32. Angular,
 33. Bent,
 34. Cushioned,
 35. Cushioned,
 56. Closures—
 57. Hinged—
 58. Display,
 59. Sliding,
 60. Supports—
 61. Detachable,
 62. Sliding—
 63. Display,
 64. Followers,

217.—WOODEN RECEPTACLES—Con.

- Boxes—Continued.**
 65. Joints,
 66. Straps—
 67. Corrugated,
 68. Wire,
 69. Stays—
 70. Driving—
 71. Wire.
Barrels—
 72. Cases,
 73. Ventilated,
 74. Compartment,
 75. Closures—
 76. Braced,
 77. Expanding—
 78. Wedge,
 79. Croze and chamfer,
 80. Covers—
 81. Compartment,
 82. Hinged,
 83. Sliding,
 84. Wire,
 85. Gates,
 87. Fasteners,
 88. Followers,
 89. Staves,
 90. Hoop-sockets,
 91. Hoops—
 92. Elastic,
 93. Retainers,
 94. Tighteners—
 95. Screw,
 96. Joints,
 97. Moisteners,
 98. Bungs—
 99. Valved—
 100. Automatic—
 101. Safety,
 102. Controllers,
 103. Collapsible,
 104. Flexible-diaphragm,
 105. Liquid-seal,
 106. Locking—
 107. Bayonet and screw,
 108. Expanding—
 109. Gasket,
 110. Plugs—
 111. Frangible-diaphragm,
 112. Extractors,
 113. Bushings,
 114. Protectors and cancelers.
Baskets—
 122. Bottoms,
 123. Closures,
 124. Handles.
Bent—
 1. Angular.
Linings.
 3. **Bucket-ears.**

218.—BUTTON, EYELET, AND RIVET SETTING.*

- Machines—**
 0.5. Gang,
 4. Button—
 5. Riveting—
 6. Magazine,
 Eye-shank—
 7. Tack-fastener,
 Staple-fastener—
 8. Staple making and setting,
 Threading and setting,
 10. Threaded-button feed,
 11. Threaders,
 12. Button-feeders,
 13. Tack-fastener feeders,
 Riveting—
 1. Magazine—
 2. Feeding,
 2.1. Staple,
 3. Eyeletting—
 14. Magazine—
 15. Feeding,
 15.1. Lacing-hook—
 16. Magazine—
 17. Feeding,
 17.1. Button-carding,
 17.2. Gages.
Implements—
 20. Button—
 21. Riveting,
 22. Pliers—
 23. Tack-fastener,
 24. Staple-fastener,
 19. Riveting,
 25. Eyeletting,
 26. Lacing-hook,
 27. Button-detaching.
Packages.

219.—ELECTRIC HEATING AND RHEOSTATS.*

- 1. Metal heating and working—**
 2. Riveting,
 3. Shaping,
 4. Welding—
 5. Rings,
 6. Tubes,
 7. Arc-system—
 8. Work in circuit—
 9. Liquid-electrode,
 Processes.
11. Metal-heating—
 12. Soldering,
 13. Transformer-system,
 14. Arc-system—
 15. Work in circuit—
 16. Liquid-electrode,
 Work-holders—
 17. Cooled.
Heaters—
 19. Systems,
 20. Tools and instruments—
 21. Heaters—
 22. Tool-controlled,
 23. Hair-curlers,
 24. Sad-irons,
 25. Soldering-irons—
 26. Solder-feeding,
 27. Indirectly-heated,
 28. Burning—
 30. Branding-stamps,
 31. Cauters,
 32. Igniters,
 Oil-well,
 33. Fluid—
 38. Forced-circulation,
 39. Fluid in circuit,
 40. Immersion,
 Heating-fans,
 42. Vessels and stands,
 43. Vessels,
 44. Incandescent-lamp,
 45. Flexible,
 46. Inductional,
 34. Radiators,
 35. Ovens—
 36. Tubular,
 37. Radiating-plate.
Rheostats—
 48. Lamp-socket,
 49. Compressible—
 50. Pile,
 51. Spring,
 52. Embedded-resistance,
 53. Pile,
 54. Continuous-resistance—
 55. Helix,
 56. Liquid,
 57. Penetration,
 58. Reel,
 59. Tapering,
 60. Plug-boxes,
 61. Rectilinear-slide.
Resistance elements—
 62. Embedded—
 63. Fluid,
 64. Granular,
 65. Incased coils,
 66. Piles,
 67. Zigzag grids,
 68. Zigzag-helix,
 70. Compound-helix,
 71. Granular,
 72. Lamellar—
 73. Ribbon,
 74. Carbon,
 75. Composition.

220.—METALLIC SHIPPING AND STORING VESSELS.

- 1. Barrels—**
 2. Corrugated,
 3. Jackets,
 4. Sectional.
135. Baskets—
 136. Wire.
Boxes—
 5. Blacking—
 6. Handles,
 7. Blanks,
 8. Closures—
 9. Fasteners,
 10. Hinges—
 11. Spring,
 12. Sliding,

* See Definitions of Revised Classes.

220.—METALLIC SHIPPING AND STORING VESSELS—Continued.

- Boxes—Continued.**
 14. Compartment—
 15. Closures,
 17. Knockdown.
 21. **Bucket-bottoms.**
 22. **Bucket-closures.**
 23. **Bucket-ears—**
 24. Detachable,
 26. Embossed,
 Locking—
 27. Bail,
 28. Cover,
 29. Wire.
 30. **Bucket-handles—**
 31. Wire—
 32. Balls.
 33. **Buckets—**
 34. Can—
 35. Coal—
 36. Blanks,
 37. Bottoms—
 38. Integral-foot,
 39. Integral foot and body,
 40. Wooden,
 41. Closed,
 42. Feeders—
 43. Bottom,
 44. Guards—
 45. Pivoted,
 46. Sifting,
 47. Garbage,
 48. Jackets,
 49. Lunch—
 50. Compartment—
 51. Nesting—
 52. Sectional,
 53. Jackets,
 54. Slop—
 55. Closures—
 56. Disinfecting,
 57. Liquid-seal.
 58. **Can-closures—**
 59. Cap,
 60. Fasteners—
 61. Bar,
 62. Pivoted,
 63. Plug,
 64. Ring,
 65. Rip—
 66. Breakable,
 67. Cutting,
 68. Strip—
 69. Integral—
 70. Double-seam,
 71. Key,
 72. Wire—
 73. Seam,
 74. Screw—
 75. Bayonet,
 76. Slip—
 77. Multiple-cover,
 78. Packed,
 79. Sealing-grooves,
 80. Snapping.
 81. **Can-seams—**
 82. Crimped—
 85. Four-wall,
 86. Five-wall,
 83. Ring,
 87. Six to twelve wall,
 84. Three-wall.
 88. **Canisters—**
 89. Bottom-feed,
 90. Closures,
 91. Display.
 92. **Cans—**
 93. Blanks,
 137. Bottoms,
 Compartment—
 145. Casing,
 147. Internal oan,
 146. Receptacle in oover,
 94. Hermeticlosures—
 95. Fusible,
 96. Plug,
 97. Hermetic sealers,
 138. Jacketed,
 98. Lined.
 108. **Casks—**
 109. Soda-water—
 110. Valved.
 111. **Crates—**
 131. Knockdown—
 Folding—
 133. Horizontal and vertical
 pivot,
 132. Horizontal-pivot,
 134. Sectional.
Kettles—
 142. Jacketed.
 144. **Liquefied-gas.**
 141. **Miscellaneous.**

220.—METALLIC SHIPPING AND STORING VESSELS—Continued.

112. **Pans—**
 113. Blanks.
 114. **Receptacles—**
 115. Antirust,
 116. Garbage—
 117. Hoisting,
 118. Sinks,
 119. Vault,
 120. Tank attachments—
 121. Safety—
 122. Float,
 123. Water-jackets.
 124. **Tank-closures.**
 125. Tanks—
 140. Braces,
 139. Supports and brackets.
 143. **Vats**
 Jacketed.

221.—DISPENSING.

93. **Canteens and flasks.**
 1. **Filling-cans—**
 2. Closures—
 3. Cap—
 4. Screw,
 5. Spout,
 6. Pivoted,
 7. Screw,
 8. Plug,
 9. Jackets,
 11. Nozzles—
 12. Cut-offs—
 13. Automatic—
 14. Spring—
 15. Pull,
 16. Push,
 17. Vents,
 18. Detachable,
 19. Rotary—
 20. Vented,
 22. Screw,
 21. Slide,
 23. Detachable—
 24. Reversing,
 25. Flexible-tube,
 26. Pivoted,
 27. Sliding,
 28. Vented,
 29. Tilting stands—
 90. Pivoted—
 91. Frames,
 92. Lift and swing,
 31. Vents.
 32. **Hand-ollers—**
 33. Attachments,
 34. Bottom springs,
 35. Compartment,
 36. Drip-catchers—
 37. Return—
 38. Valved,
 39. Vents,
 40. Droppers,
 41. Feed-controllers—
 42. Automatic,
 43. Bottom,
 44. Spout,
 45. Stem—
 46. Lever,
 47. Forced-feed—
 48. Bottom-actuated,
 49. Bulb,
 50. Nozzle-actuated,
 51. Pump—
 52. Air,
 54. Holders—
 55. Rod,
 56. Illuminating,
 57. Spouts—
 58. Cleaning-pins,
 59. Closing-caps,
 60. Vented.
 61. **Liquid-soap containers.**
 62. Paint-tubes.
 63. **Powder-cans—**
 64. Cut-offs—
 65. Rotary,
 66. Receiving-pockets,
 67. Rotary stirrers.
 68. **Predetermined-bulk—**
 69. Dipping operation,
 70. Force-discharge—
 71. Variable,
 72. Meter-actuated cut-off,
 73. Proportional,

221.—DISPENSING—Continued.

- Predetermined-bulk—Contd.**
 99. Pump-supply—
 100. Variable,
 Rotary trap-chamber—
 108. Axial-feed—
 109. Variable,
 106. Radial-feed—
 107. Variable,
 104. Sliding trap-chamber—
 105. Variable,
 Stationary trap-chamber—
 110. Two independent cut-offs—
 111. Variable,
 112. Two non-rigidly-connected
 cut-offs—
 113. Variable,
 116. Unitary rotary two-way cut-
 off—
 117. Variable,
 114. Unitary sliding two-way cut-
 off—
 115. Variable,
 Tipping operation.
Tanks
 67. Cabinets,
 68. Drainers—
 69. Covered,
 70. Cup,
 71. Pump—
 72. Covered,
 73. Pressure—
 74. Air—
 75. Blow,
 76. Bulb,
 77. Pump,
 78. Followers—
 79. Screw,
 80. Pump—
 81. Covered,
 82. Lift—
 83. Removable,
 84. Nozzle,
 85. Removable,
 86. Return-suction.

222.—HYDRAULIC CEMENT AND LIME.

3. Kilns—
 5. Attachments,
 6. Gypsum,
 7. Rotary.
 4. Lime.

223.—APPAREL APPARATUS.

3. Cloth-pliers.
 55. Collar, cuff, and bosom ma-
 chines.
 56. Combined spool and imple-
 ment holders—
 57. Stands.
 4. Corset-stiffeners, making.
 14. Darning-lasts.
 15. Folders.
 17. Garment-formers.
 18. Garment-forms.
 19. Garment-stretchers.
 20. Garment-turners.
Hat-machines—
 21. Blocks,
 22. Brim-curlers,
 23. Brim-heaters,
 24. Brim-trimmers,
 25. Brim-wirers,
 26. Cleaners,
 27. Finishers,
 28. Ironers,
 29. Pinner,
 30. Pouncers,
 31. Shapers,
 32. Sizers,
 33. Stretchers,
 34. Sweat-flangers.
 58. Implement-holders.
 59. Miscellaneous.
 35. Needle-holders.
 36. Needle-threaders.
 37. Needles—
 38. Tape.
 39. **Plaiters—**
 40. Boards,
 41. Creasers,
 42. Fluters,
 43. Slotted-bed,
 44. Vibrating-blade,
 45. Wavers.

223.—APPAREL APPARATUS—Contd.

51. Thimbles.
52. Trimmings, making.
53. Work-boxes.
54. Work-holders.

224.—PACKAGE AND ARTICLE CARRIERS.*

1. Weapon—
2. Sheaths and scabbards—
3. Hangers.
4. Watch and clock.
5. Body and belt attached—
6. Baby or patient,
7. Game,
8. Knapsack—
9. Convertible—
10. Tent,
11. Slings with belts,
12. Slings,
13. Cartridge—
14. Garment-attached,
15. Magazine—
16. Longitudinal-feed,
17. Compartment,
18. Revolving,
19. Tilting-pocket,
20. Block-cell,
21. Individual holders,
22. Belt or sling—
23. Loop and pocket holders—
24. Skeleton,
26. Bag, case, or frame—
27. Chatelaine,
28. Hand or wrist attached,
25. Bracket.
29. Vehicle—
30. Bicycle—
31. Convertible and combined,
32. Receivers—
33. Collapsible-frame,
34. Wrapper,
35. Forward-reach supported,
36. Handle-bar supported,
37. Spring-holders—
38. Frame,
39. Bracket—
40. Folding,
41. Handle-bars supported,
42. Hooks.
43. Saddle-bags—
44. Traveling-bag.
45. Hand—
46. Convertible and combined,
47. Traveling-bag,
48. Tray,
49. Sling,
50. Handle and clamping plates—
51. Strap-tightener,
52. Handle, bar, and strap—
53. Harness,
54. Strap-tightener,
55. Handle and strap—
56. Cord or chain—
57. Cord-hook,
58. Strap-loop.

225.—DISPENSING BEVERAGES.

1. Beer apparatus—
2. Barrel-taps—
3. Draft-tube,
4. Driving-tools—
41. Faucets—
43. Bung-holding,
42. Screw-bung,
44. Guards,
5. Faucets—
6. Foam,
7. Pump,
8. Foam-separators—
9. Settling-chambers,
10. Followers—
11. Collapsible,
12. Pipe-cleaners—
13. By-pass,
14. Hot-water,
- Pressure—
15. Air—
16. Pump,
17. Gas—
18. Attached-chamber,
19. Pump,
20. Vents.

225.—DISPENSING BEVERAGES—Con.

40. Cooler type.
21. Soda-water apparatus—
22. Bottle-taps,
23. Faucets—
24. Foam—
25. Rotary-valve,
26. Mixing,
27. Nozzles,
28. Fountains—
29. Casings,
30. Pressure-reducers,
31. Pump,
32. Syrup-cocks—
34. Rotary,
35. Syrup-tanks—
36. Removable—
37. Sliding,
38. Swinging,
39. Valves.

226.—PACKAGING LIQUIDS.

4. Corking-machines—
5. Automatic-feed,
6. Compressing—
7. Automatic-feed,
8. Hand-tools.
28. Filling and corking machines—
29. Barrel,
30. Corking-nozzle,
31. Counter-pressure,
32. Reciprocating-nozzle.
9. Filling-machines—
10. Barrel,
15. Counter-pressure,
11. Cut-offs—
12. Automatic—
13. Float,
14. Vent,
16. Faucets,
17. Gage—
18. Adjustable,
19. Pump—
20. Adjustable,
21. Multiple-nozzle,
22. Reciprocating-nozzle,
23. Siphon-bottle,
24. Siphon-tube,
25. Stoppers—
26. Internal,
27. Valve,
28. Turn-over.
34. Fountain-pen fillers.
33. Funnels.

227.—FIRE-ESCAPES.

5. Balcony.
6. Body-catchers.
7. Chutes.
8. Climbers.
9. Convertible furniture.
10. Endless carriers.
11. Fire-escapes.
12. Guided hoists.
13. Hand-protectors.
14. Holst-rope-supporting trolley.
15. Lazy-tongs—
16. Rack-and-pinion,
17. Screw,
18. Windlass.
19. Parachutes.
20. Portable spars and towers.
22. Reel.
28. Rope-brakes—
29. Tortuous,
30. Tortuous and grip,
25. Rope-brakes, grip-jaw—
26. Screw-operated,
27. Wedge.
31. Shooting-lines.
32. Sliding-poles.
33. Stairway-towers.

228.—LADDERS.

1. Building-attached—
2. Independent rungs and steps,
3. Non-collapsible foldable.
4. Collapsible.
5. Feet.
6. Flexible—
31. Jointed sections,
7. Reel—
9. Jointed sections, upwardly-extensible,
10. Single-stile.
11. Guards.
12. Hinged sections.
14. Ladders.
15. Propped—
16. Collapsible,
32. Convertible,
17. Hinged sections,
18. Separable sections,
19. Slidable sections.
20. Sealing.
23. Separable sections.
21. Shutter.
22. Single-stile.
24. Slidable sections—
25. Stops.
26. Store-service.
27. Trap-door operating.
30. Trolley.
28. Truck.
29. Trussed.

229.—PAPER RECEPTACLES.*

16. Folded blank boxes—
24. Buckets—
25. Closures—
26. Integral-cover,
30. Trays—
31. Corner-folds,
32. Corner-flaps—
33. Cover-extension,
34. Infolding-side,
35. Interlocking—
36. Cover-extension,
37. Tubes—
38. Closures, inserted flaps—
39. Interlocking,
40. Wrappers,
19. Slide—
20. Dispensing,
27. Compartment—
28. Cells—
29. Wrapper,
17. Dispensing,
23. Multiple,
18. Sectors,
22. Triangular,
21. Cylindrical.
6. Boxes—
- 8.5. Savings,
9. Slide—
10. Compartment,
11. Dispensing,
15. Compartment,
42. Division-plates,
7. Dispensing,
8. Ornamental,
12. Cylindrical—
13. Pressed bottoms and tops,
14. Lined,
41. Collapsible,
43. Closures—
44. Hinged,
45. Fasteners—
46. Cord,
47. Metallic,
51. Openers, ripping,
52. Handles,
48. Seams,
49. Stays—
50. Cord.
53. Bags—
54. Satchel,
55. Reinforced,
56. Compartment,
57. Bottoms—
58. Square—
59. Corner-slits,
60. Diamond-fold,
61. Seamless,
62. Closures—
63. Cord,
64. Fluted,
65. Metallic,
66. Opening.

* See Definitions of Revised Classes.

229.—PAPER RECEPTACLES—Contd.

68. Envelopes—
69. Coin,
70. Coupon,
71. Display,
72. Pocket,
73. Return,
74. Tag,
75. Blanks,
76. Closures—
77. Fasteners—
78. Metallic,
79. Seal,
80. Sealing—
81. Perforated,
82. Tongues,
83. Soluble-dye,
84. Tongue,
85. Openers—
86. Cord,
87. Wrappers—
88. Bag,
89. Bottle—
90. Corrugated,
91. Padded,
92. Mailing-sheets.
93. Tubes, cylindrical.
67. Barrels.
1. Vessels—
2. Angular,
3. Cylindrical—
4. Pressed,
5. Liquid-proofed.

230.—AIR AND GAS PUMPS.

35. Air-motors—
36. Bellows,
37. Convertible motor and pump.
1. Automatic fans.
2. Bellows.
3. Bulb.
4. Collapsible-tube.
5. Cooling and sealing.
6. Diaphragm.
7. Fan attachments—
8. Bellows,
9. Fly-wheel,
10. Treadle.
11. Fan-blowers.
- Fluid-piston—
12. Endless-channel,
13. Injectors and aspirators—
15. Fall-tube,
14. Rotary,
16. Tube-cleaners,
17. Reciprocating-piston,
18. Tank and bell,
19. Tank and float,
20. Tank and hand-valve,
21. Tank and overflow-valve,
22. Tank and pressure-valve,
23. Tilting-tank.
24. Pressure-control.
25. Receivers.
26. Sand-blowers.
- Solid-piston—
27. Rectilinear—
28. Hydraulic-motor,
29. Oscillating,
30. Rotary—
31. Rectilinear.
32. Systems.
33. Toilet-fans.
34. Valves and valve-gear.

231.—WHIPS AND WHIP APPARATUS.*

1. Whip-machines.
2. Whips—
3. Convertible whips and canes,
4. Lashes,
5. Lash and snap fastenings,
6. Caps, buttons, and joints.

232.—DEPOSIT AND COLLECTION RECEPTACLES.*

1. Miscellaneous.
2. Ballot-boxes—
3. Ball.
4. Savings-boxes—
5. Inspection,
6. Frame-fastenings.
7. Fare-boxes—
8. Ticket punching and canceling,
9. Multiple coin slot and runway,
10. Ticket and change,
11. Ticket, car,
12. Receivers,
13. Illumination,
14. Change-gates,
- Collection devices—
15. Safety-receptacle—
16. Auxiliary.
- Letter-boxes—
17. Ticket registers and recorders,
18. House—
20. Collection and delivery—
21. Compartment,
22. Door or window jamb,
23. Inside-fastener,
24. Compartment—
25. Cooperative closures—
26. Distributing-guide,
27. Collection and delivery,
28. Pivoted-receiver,
29. Auxiliary, cooperating,
30. Collection devices—
31. Safety-receptacle—
32. Auxiliary,
33. Package clips and pockets,
- Signals—
34. Sight—
35. Door-controlled,
- Sound—
36. Door-controlled,
- Indicators—
37. Door-operated,
38. Frame construction,
39. Supports and fastenings—
40. Movably-attached.
41. Milk-receptacles—
42. Door or window jamb,
43. Funnel-filler.
- Closures and chutes—
45. Letter-box—
46. Name-plate,
47. Pivoted-trap—
48. Double,
49. Pocket—
50. Bottomless,
51. Integral-door,
52. Turnstile,
53. Discharge,
54. Guard-fingers,
55. Coin-trap—
56. Endless-carrier,
57. Pivoted,
- 57.5. Refunding,
58. Cooperating chute-closure—
59. Multiple-trap,
60. Rotatable—
61. Turnstile,
62. Gravity reverse-checks,
63. Serrated shelves.

233.—CENTRIFUGAL-BOWL SEPARATORS.*

1. Miscellaneous.
2. With filtering.
3. With agitating or conveying—
4. Outside of bowl,
5. Vibratable-shell,
6. Rotary and reciprocating stirrer,
7. Rotary-stirrer—
8. Current-actuated,
9. Expansible,
10. Stationary-stirrer.
11. With heat exchange.
12. With fluid treatment—
13. Gas,
14. Liquid—
15. Opposed-flow.
- With fluid distribution—
16. Multiple-separator—
18. Successive,
19. Controlling—
20. Bowl-valve,
21. Conducting or receiving—
22. Movable-receiver.

233.—CENTRIFUGAL-BOWL SEPARATORS—Continued.

23. With power transmission—
24. Motor,
25. Planetary-movement,
26. Test-tube and bottle holding.
27. Separators—
28. Receiving-distributing, and discharging—
29. Non-radial distributing-plate—
30. Longitudinal—
31. Concentric,
32. Radial distributing-plate—
33. Longitudinal,
34. Receiving and distributing—
35. Non-radial distributing-plate—
36. Longitudinal—
37. Concentric,
38. Distributing and discharging—
39. Non-radial distributing-plate—
40. Distributing—
41. Non-radial distributing-plate—
42. Longitudinal—
43. Concentric,
44. Radial distributing-plate,
45. Receiving,
46. Discharging—
47. Exits.

234.—RECORDERS.*

1. Miscellaneous.
2. Combined recorders and registers—
3. Fare—
4. Individual-record.
5. Total-record,
6. Speed.
9. Fare—
- 9.5. Electric.
12. Passenger—
13. Gate,
14. Seat,
15. Step,
- 12.5. Electric.
8. Cartographic.
26. Ship's-course—
- 26.5. Electric.
- 33.5. Electric meter.
- Telephone.
22. Steam-engine indicators—
23. Bourdon type,
24. Drum,
25. Engine connections,
- Indicator-cylinder.
- Signal—
- 27.5. Electric.
7. Anemometer.
6. Combined readings.
10. Float.
28. Specific-gravity.
29. Speed—
- Shaft—
30. Continuous-record—
31. Governor-controlled,
32. Uniform-amplitude,
33. Intermittent-record,
- 29.5. Electric.
34. Volume—
- 34.5. Electric,
35. Meter-readings.
- Time-stamps—
- Dial—
54. Movable-dial,
55. Movable-platen,
- Drum—
56. Movable-drum,
57. Movable-platen,
- 53.5. Electric.
36. Time—
- Watchmen's—
37. Miscellaneous,
- Stationary-record—
38. Time-operated marker,
- Time-operated record—
39. Multiple-key,
40. Single-key,
- 37.5. Electric—
- 37.6. Receivers,
- Workmen's—
41. Miscellaneous,
42. Check-receivers,
- Individual-card—
43. Time-impression,

* See Definitions of Revised Classes.

234.—RECORDERS—Continued.**Time—Continued.**

Workmen's—Continued.
Intermittently-movable rec-
ord—

Time-printing wheel—

44. Autographic,

45. Check-operated,

Individual-record—

46. Single-impression,

47. Printing-key—

48. Operating-lever,

Time-operated record—

49. Autographic,

Individual-record—

50. Single-impression—

51. Printing-key,

52. Tag-operated marker,

53. Wage-computers,

41.5. Electric,

36.5. Electric.

11. Heat.

17. Pressure—

18. Air-brake,

Gage—

19. Disk,

20. Drum.

16. Power.

1.5. Electric.

235.—REGISTERS.*

1. Miscellaneous.

2. Cash registers and recorders—

3. Check-printing.

4. Cash-recorders—

5. Manual.

7. Cash-registers—

6. Departmental,

8. Key-set—

9. Crank-operated,

10. Drawer-operated,

11. Motor-operated,

12. Key-operated—

13. Detail-adders,

14. Differential mechanism—

15. Key-coupled,

16. Lost-motion mechanism,

17. Checks—

18. Balls,

19. Dial—

20. Independent-indicator,

21. Lever-operated,

22. Drawer-operating mechanism,

23. Indicator mechanism—

24. Shutters,

25. Tablet-droppers,

26. Key-arresters,

27. Key-locks,

28. Lid-registers.

33. Fare-registers.

29. Multiple,

30. Cab-fare indicating,

31. Ticket-delivery,

32. Registering-boxes,

34. Dial-and-cylinder,

35. Belt,

36. Parallel axes—

37. Cylinder,

38. Dial-and-hand,

39. Disk,

40. Single-axis—

41. Concentric-disk,

42. Cylinder,

43. Dial-and-hand,

44. Operating devices—

45. Electric,

46. Punch,

47. Resetting—

48. Direction-indicator,

49. Hundreds-indicator.

51. Voting-machines—

50. Recording,

52. Assembly,

53. Check-operated,

54. Key-set,

55. Key-operated,

56. Vote-counters.

57. Registering ballot-boxes.

61. Calculators—

58. Recording—

59. Key-operated,

60. Key-set,

62. Motor-actuated,

63. Traveling-carriage,

64. Adding-pencils,

65. Bar-and-disk,

66. Cylinder-and-disk,

67. Spiral,

235.—REGISTERS—Continued.**Calculators—Continued.**

68. Ball,

69. Bar—

70. Slide-rules,

71. Belt,

72. Parallel axes—

73. Cylinder,

74. Disk—

75. Key-operated,

76. Gear,

77. Single-axis—

78. Concentric-disk,

79. Cylinder—

80. Keyless—

81. Lever-operated,

82. Key-operated,

83. Disk—

84. Slide-rules,

85. Tabular—

86. Belt,

87. Cylinder,

88. Disk,

89. Sheet,

90. Game-boards.

102. Type-writer word-counters.

94. Liquid-registers.

98. Package-operated.

100. Registering-boxes.

99. Platform-operated.

101. Stamp.

93. Gate and turnstile operated.

95. Odometers—

96. Details,

97. Trip-and-total.

103. Rotation-counters—

103.5. Comparing,

104. Timing devices.

105. Pedometers.

123. Ball or button indicator.

124. Bar-and-scale.

125. Belt.

126. Card.

127. Pivoted-indicator.

106. Angled axes.

107. Spiral.

108. Parallel axes—

109. Gear,

110. Cylinder,

111. Dial-and-disk,

112. Dial-and-hand,

113. Disk—

114. Hand-operated.

115. Single-axis—

116. Concentric-disk,

117. Cylinder—

118. Single-cylinder,

119. Differential gears,

120. Dial-and-hand—

121. Multiple-hand,

122. Single-hand,

92. Disk.

91. Electrically-operated.

128. Operating devices.

129. Alarm mechanism.

130. Full-stroke mechanism.

131. Locking mechanism.

132. Overthrow-preventers.

133. Stop mechanism.

134. Transfer mechanism—

135. Cam-and-lever,

136. Deep-notch,

137. Differential gears,

138. Independent-actuator—

139. Successive,

140. Intermediate-pinion,

141. Side-tooth—

142. Lock,

143. Traveling-pawl—

144. Side-action.

Zero-setting devices.

236.—DAMPERS. AUTOMATIC.

1. Balance d-motor.

19. Car-radiator.

2. Draft-operated.

4. Electrical.

5. Expansion—

Air-valves—

20. Expanding-float,

21. Expanding-fluid—

22. Closed-chamber,

23. Open-chamber—

24. Float,

25. Expanding-solid—

26. Float,

With pressure control,

236.—DAMPERS. AUTOMATIC—Contd.**Expansion—Continued.**

12. Liquid-level—

13. Separate-conduit—

14. Pressure-operated valve,

15. Trip-valve.

6. Fluid-pressure.

16. Fusible.

7. Miscellaneous.

8. Pressure-motor.

Traps—

18. Float-valve—

Air-port,

Pressure-operated valve—

17. Air-port.

9. Traps, thermostatic—

10. Fluid-operated,

Pressure-operated valve.

237.—HEATING SYSTEMS.*

1. Miscellaneous.

2. Automatic-control—

3. Brooder and incubator—

4. Water,

5. Car—

6. Steam,

7. Combined radiator and boiler,

8. Water,

9. Steam—

10. Gas-displaced,

11. Compressed-air,

12. Processes.

13. Plants.

14. Brooder and incubator—

15. Water.

16. Combined radiator and boll-
er—

17. Fluid-fuel,

18. Solid-fuel.

19. Combined with water-heater.

20. Fire-engine.

21. Vehicle.

22. Train—

23. Smoke,

24. Air—

25. Radiator,

26. Water,

27. Steam.

28. Car—

29. Stove—

30. Air-casing,

31. Depending,

32. Fluid-fuel—

33. Radiator.

34. Water—

35. Car-boiler—

36. Fluid-fuel,

37. Train-steam—

38. Injected,

39. Train-steam,

40. Steam—

41. Car-boiler—

42. Train-steam,

43. Heated-floor,

44. Heat-accumulator,

45. Incased-radiator.

69. Heated-floor.

Ventilating—

47. Stove,

48. Furnace,

49. Inclosed-radiator.

50. Air—

51. Fireplace,

52. Stove,

53. Furnace,

54. Upper-room drum,

55. Flue-heated.

56. Water—

57. Fluid-fuel,

58. Steam,

59. Circulation—

60. Geyser-boiler,

61. Auxiliary-boiler,

62. Boiler-loop,

63. Pump—

64. Steam-displacing,

65. Pressure-regulator,

66. Expansion-tanks.

67. Steam—

68. Air-discharge.

70. Heat-radiators—

71. Water, steam—

72. Injected,

73. Steam—

74. Circuit,

75. Heat-accumulator,

* See Definitions of Revised Classes.

237.—HEATING SYSTEMS—Continued.**Heat-radiators—Contd.**

76. Ceramic,
77. Foot-warmer,
78. Air-moistener,
79. Shields,
80. Antifreezing devices.
81. Processes.

238.—RAILWAY-TIES AND FASTENERS.

1. Stringers and ties—
2. Chairs,
3. Composition,
4. Fastenings,
5. Metallic,
6. Pot-sleepers.

239.—RAILWAY-RAILS AND JOINTS.**Rail-joints—**

1. Boxes,
2. Bridge-pieces—
3. Base,
4. Tread,
5. Cast-on,
6. Insulated,
7. Joint-chairs,
8. Miscellaneous,
9. Scarf,
10. Splice-bars—
11. Girder,
12. Threadless bolts,
13. Truss,
14. Web-blocks.
15. Ralls—
16. Braces,
17. Compound,
18. Guard—
19. Clamps,
20. Rack.

240.—ILLUMINATION.*

1. Miscellaneous.
2. Combined light and structure—
3. Arena,
4. Furniture,
5. Oven,
6. Show-case,
7. Vehicle—
8. Combined interior and exterior,
- 8.4. Portable, self-contained, electric.
- 8.5. Portable, self-contained, electric lamps.
9. Systems.
10. Decorative lights.
11. Lanterns—
12. Barrel-illuminators,
13. Candle type,
14. Carriage,
15. Dark,
16. Jack-o'-lanterns,
17. Lamp-chimney type,
- 17.5. Electric safety,
18. Miners' safety—
19. Locks,
20. Photographic,
21. Ship's running-lights,
22. Signal—
23. Color-screen,
24. Rotatable,
25. Street,
26. Submarine,
27. Tubular—
28. Bases,
29. Domes,
30. Globe-operators—
31. Combined lifting and swinging,
32. Lifting,
33. Swinging,
34. Tubes,
35. Angle,

240.—ILLUMINATION—Continued.**Lanterns—Continued.**

36. Collapsible,
37. Convertible,
38. Hand—
39. Color-screen,
40. Frames,
41. Projectors—
42. Bicycle,
43. Dashboard type,
44. Adjustable light or reflector,
45. Dimmers—
- 45.1. Color-screen,
- 45.2. Shutter-slats,
- 45.4. Curtain,
- 45.6. External pivoted,
46. Multiple beam,
48. Vibratory,
- 48.2. Screen—
- 48.4. Lens,
- 48.6. Bulb,
49. Revolving,
50. Bases,
51. Domes.
52. Light-supports—
53. Convertible,
54. Combined guard and holder,
55. Campaign-torch,
57. Vehicle—
58. Bicycle,
59. Body-attached—
60. Cap,
61. Dirigible—
62. Automatic,
63. Adjustable for trimming—
64. Electric—
65. Post—
66. Switch,
67. Vertically-adjustable—
68. Clamp,
69. Counter weight,
70. Friction,
71. Spring-drum,
- Brackets—
72. Combined,
73. Electric,
74. Gaseous-fuel,
75. Liquid-fuel,
76. Chandeliers—
77. Combined,
78. Electric,
79. Gaseous-fuel,
80. Liquid-fuel,
- Stands—
81. Electric,
82. Gaseous-fuel,
83. Liquid-fuel,
84. Posts,
85. Bracket and chandelier hangers—
86. Arc-lamp hangers,
87. Canopies,
88. Cord-supported,
89. Antislipping,
90. Resilient,
91. Harps.
92. Combined light protectors and modifiers.
93. Combined reflectors and refractors.
94. Chimneys—
96. Composite,
97. Supports—
98. Base—
99. Modified chimneys,
100. Attachments.
101. Globes—
102. Manipulators.
103. Guards.
104. Reflectors—
105. Canopy,
106. Side.
107. Refractors—
108. Liquid.
109. Shades—
110. Canopy,
111. Side.
112. Shade, reflector, or globe supports—
113. Candle,
114. Drop,
115. Double-clamp,
116. Top,
117. Adjustable and collapsible,
118. Spider.
119. Burner-tip cleaners.
120. Smoke-bells.
121. Spark-arresters.
122. Switches and valves—
123. Operators.
124. Taps.

241.—GARMENT-SUPPORTERS.

1. Hose—
2. Belt-attached,
3. One-point suspension,
4. Shoulder-suspension.
5. Limb-encircling—
6. Garment-attached.
7. Waist-line body-garment—
8. Belt-attached,
9. Belt-inserted section,
10. Belt-slide,
11. Belts,
12. Shoulder-suspension—
13. Belt-converting,
14. Binding-clips—
15. Button-loop,
16. Connection,
17. Braces combined,
18. Cast-offs,
19. Connections—
20. Lacing,
21. Resilient,
22. Self-adjusting—
23. Cord or strap,
24. Pivoted,
25. Garment attachments,
26. Step-adjusting,
27. Tabs,
28. Drawers-supports,
29. Two-point suspension,
30. Waist-formers—
31. Buckles.

242.—WINDING AND REELING.*

1. Miscellaneous.
2. Ball or mass winding—
3. Spheroids.
4. Ring-winding—
5. Armatures,
6. Taping and insulating.
7. Cylinder and conoid winding—
8. Armatures,
9. Magnets and coils—
10. Taping and insulating,
11. Pails and pipes,
12. Axially—
13. Armatures.
14. Spoolers—
15. Multiple.
16. Bobbin and cop winding—
17. Cutting devices,
18. Sewing-machine shuttles—
19. Cutting devices,
20. Stops,
21. Disk-type,
22. Thread pressers and pads,
23. Wire,
24. Symmetrical layers,
25. Cone-wind—
26. Detectors and stops—
27. Thread break or exhaust,
28. Load,
29. Quick-traverse,
30. Multiple,
31. Pressers and shapers,
32. Spindles and appurtenances,
33. Detectors and stops—
34. Thread break or exhaust—
35. Doubling-machines,
36. Load—
37. Doubling-machines,
38. Ejectors,
39. Doubling-machines,
40. Quick-traverse,
41. Building mechanisms—
42. Warp-wind—
43. Weft-wind—
44. Varying traverse and gain,
45. Varying-traverse,
46. Multiple,
47. Tension devices,
48. Spool and bobbin lifters,
49. Driving connections—
50. Cop-tube,
51. Clutch—
52. Centrifugal,
53. Resilient-head,
54. Resilient-socket—
55. Coil-spring.
56. Cordage—
57. Cutting devices,
58. Detectors and stops,
59. Cards, boards, and forms,
60. Heddle and seine needles,
61. Tattling-shuttles,
62. Hank and skein winding.

* See Definitions of Revised Classes.

242.—WINDING AND REELING—Con.

54. Reeling and unreeling—
55. Fabrics—
56. Cutting devices,
57. Detectors and stops,
58. Web-roll supply,
59. Lapped or butted lengths,
60. Bandage-rolling,
61. Cards, boards, and forms,
62. Cloth,
63. Automatically - contracting reel,
64. Revolvable reel-carriers,
65. Friction-drum drive—
66. Multiple-drum,
67. Belt-reels,
68. Cores and holders—
69. Note-sheet rolls,
70. Ribbon and film spools—
71. Camera,
72. Contractile—
73. Lengthwise,
74. Web-fasteners,
75. Tension devices,
76. Guards and guides,
77. Reels—
78. Metal-working—
79. Coil-conveying,
80. Multiple,
81. Coil-stripping,
82. Revolvable-coiler,
83. Receptacle,
84. Retractable-arm,
- 84.1. Fishing-rod type—
- 84.2. Signal,
- 84.3. Spring-operated,
- 84.4. Line-traverser,
- 84.5. Brake and drag—
- 84.6. Clicker,
- 84.7. Releaser,
- 84.8. Tape-measure type—
- 84.9. Spring-drum,
85. Carriers—
86. Hose—
87. Wheeled—
88. Automatic winders,
89. Loop-attached,
90. Wheeled—
91. Automatic winders—
92. Guides,
93. Guides,
94. Trundle-reels,
95. Wheel-attached,
96. Hand or body—
97. Casing,
98. Spring-drum article-holders,
99. Brakes,
100. Clothes-line type—
101. Casing,
102. Spring-drum,
103. Nailing and stapling,
104. Line-driers,
105. Box-strap,
106. Bracket-supported,
107. Spring-drum type—
108. Gearing,
109. Vertical,
110. Contractile—
111. Pivoted-arm—
112. Lazy-tongs type,
113. Slidable-arm—
114. Auxiliary,
115. Knockdown or collapsible,
116. Separable disks or heads,
117. Winding-drums and sand-reels,
118. Bobbins and spools—
119. Paper, pulp, or leather,
120. Cop type—
121. Metal,
122. Paper, pulp, or leather,
123. Metal heads,
124. Removable heads,
125. Thread fasteners and guides—
126. Separable,
127. Skein-holders,
128. Unwinding devices,
129. Coil-holders,
130. Bobbin supporters and holders—
131. Creels,
132. Receptacle or trough,
133. Take-ups,
134. Spool-holders—
135. Thread-cutters,
136. Carrier attachments,
137. Receptacles—
138. Single-spool,
139. Stands,
140. Thread guards and guides,
141. Twine-holders—
142. Cutters,

242.—WINDING AND REELING—Con.

- Twine-holders—Continued.
143. Take-ups—
144. Pivoted-guide,
145. Rotary,
146. Receptacle,
147. Tension devices—
148. Alarms and indicators,
149. Clamp—
150. Disk type,
151. Roller—
152. Fluted,
153. Tortuous-course—
154. Adjustable,
155. Wheel or pulley,
156. Brakes,
157. Guides—
158. Traverse mechanism.
159. Special packages—
160. Cone-wind,
161. Bobbins, cops, and spools.

243.—PNEUMATIC DESPATCH.*

1. Systems—
5. Trunk-line and branches,
6. Relay,
- Active on transit—
7. Motor-actuating—
8. Pressure,
9. Exhaust,
10. Reservoir—
11. Pressure,
12. Exhaust,
13. Timers—
14. Pressure,
15. Exhaust,
16. Selective-delivery—
17. Pressure,
18. Exhaust,
2. Combined pressure and exhaust,
3. Pressure,
4. Exhaust.
- Terminals—
19. Combined delivery and sending,
- Delivery—
20. Pressure—
21. Double-gate,
22. Single-gate,
23. Exhaust,
24. External receivers,
- Sending—
25. Pressure—
26. Lock—
27. Timers,
28. Exhaust.
29. Switches—
30. Main and branch line block,
31. Tube-section.
32. Carriers—
33. Wheeled.
- Sliding—
34. Side-opening,
35. End-opening.
36. Signals and indicators.
37. Obstacle-detectors.
38. Details—
39. Carrier.

244.—AERONAUTICS.*

1. Miscellaneous.
2. Launching and landing devices.
3. Balloons—
4. Captive,
5. Propelled—
6. Screw—
7. Helicopter,
8. Paddle-wheel,
9. Wing,
10. Fluid,
11. Flying-machines—
12. Aeroplane—
13. Propelled—
14. Screw—
15. Helicopter,
16. Paddle-wheel,
17. Wing,
18. Fluid,
19. Helicopters,
20. Wing,
21. Parachutes.

244.—AERONAUTICS—Continued.

22. Kites—
23. Multiple-plane,
24. Accessories.
25. Propellers—
27. Wing.
29. Steering mechanism.
30. Cars.
31. Details.

245.—WIRE FABRICS AND STRUCTURE.*

1. Miscellaneous.
2. Fabrics—
3. Ties and clips,
4. Chain,
5. Interlocking loops,
6. Coil,
7. Hexagonal-mesh,
8. Quadrangular-mesh,
9. Link,
10. Edges and seams,
11. Slat-and-wire.
12. Joints.

246.—RAILWAY SIGNALING.

1. Bridge-guards.
2. Compensators—
3. Intermittent-grip,
4. Slot,
5. Weight.
6. Deflection-stands.
7. Interlocking—
57. Detector-bars,
8. Rods,
9. Selectors,
10. Stands—
11. Catch,
12. Plunger,
13. Signals—
14. Automatic-alarm,
15. Bar,
- Detonating—
16. Automatic,
17. Car-placers,
18. Electric,
19. Hand-placers,
20. Torpedoes,
21. Electric—
22. Block,
23. Block-crossing,
24. Block systems,
25. Cab—
- Sectional-rail—
26. Relay,
27. Car,
28. Lock,
29. Sectional-rail—
30. Cab and block,
31. Crossing,
32. Electromechanical-lock,
33. Lock,
34. Track instruments,
35. Trolley,
36. Light,
37. Pneumatic—
38. Automatic,
39. Portable,
40. Switch,
41. Time—
42. Retarders,
43. Train-order.
44. Signals, automatic—
45. Agitated,
46. Block,
47. Crossing,
48. Danger,
49. Setting apparatus,
50. Tappets,
51. Trips.
52. Switches and signals—
- Electric—
53. Return-indication,
54. Trolley-actuated switches,
55. Trolley-contacts,
56. Staff systems.
57. Track-circuit controlled.
58. Trip-controlled—
59. Frangible devices.
60. Vehicle and occupant inter-control.
- 61.

* See definitions of Revised Classes.

247.—ELECTRICITY—CONDUITS.

1. Boxes, pipe connections.
3. Conductors, bracket-support-
ed.
4. House-wiring—
5. Outlet-boxes—
6. Adjustable face,
7. Plugged inlets,
8. Removable wall.
9. Integral sections.
10. Joints.
11. Junction-boxes—
12. Overground—
13. Panel-board type.
11. Thermal cut-outs,
14. Underground—
15. Panel-board type.
16. Lining.
17. Miscellaneous.
18. Plural pipes—
19. Bracket-supported.
20. Separable wall—
21. Conductors, bracket-support-
ed,
22. Plural pipes.
27. Vehicle.
23. Wire-drawing—
24. Creepers,
25. Motors,
26. Sectional rods.

248.—SUPPORTS,

- Adjustable—
1. Horizontal,
2. Vertical—
3. Clamp—
4. Electric,
5. Counterweight—
6. Electric,
7. Friction—
8. Electric,
9. Spring—
10. Electric,
50. Article-carried.
11. Barrel-stands—
12. Racks,
13. Rolling,
14. Swing—
15. Roller-supports,
16. Tilting—
17. Rolling.
- Brackets—
18. Shelf—
19. Adjustable,
20. Special-article.
49. Brush and broom.
21. Convertible.
22. Hooks—
23. Claspings,
24. Folding or swinging,
25. Hoist-operated,
48. Molding,
26. Wire—
27. Single-piece,
40. Horn.
28. Hose-holders—
29. Nozzle.
30. Miscellaneous.
31. Pipe or cable hangers—
32. Beam-flange supported,
33. Cable-clip type,
35. Interjoist,
34. Multiple,
36. Wall-attached.
37. Staff-holders—
38. Vertical.
41. Stands.
39. Suction-cup.
42. Tree-ornament type.
43. Tripods—
44. Cane type,
45. Horizontal adjustments,
46. Instrument-attaching devices,
47. Leveling adjustments.

250.—RADIANT ENERGY.*

1. Miscellaneous.
2. Teledynamic—
3. Earth transmission—
4. Telephony
5. Telegraphy,
6. Radio-telephony—
7. By light-waves,

250.—RADIANT ENERGY—Continued.

- Teledynamic—Continued.
8. Radio-telegraphy—
9. Multiplex,
10. Coöperative-wave,
11. Directive,
12. Group-frequency,
13. Complete-station,
14. Portable sets,
15. Repeaters,
16. Apparatus—
17. Transmitters—
18. Sustained-oscillation,
19. Controllers,
20. Receivers—
21. Detectors—
22. Electrodynamic,
23. Electrolytic,
24. Magnetic,
26. Thermo-electric,
25. Thermal,
27. Gaseous-element,
28. Liquid-element—
29. Capillary,
30. Solid-element—
31. Crystal,
32. Granular,
33. Antennæ.
34. Special-ray—
35. Tubes.
36. Oscillation-circuits—
37. Disruptive-discharge—
38. Spark-gap.
39. Wave-meters.
40. Tuners.
41. Condensers.

252.—SUBSTANCE PREPARATION.
(No subclasses.)**253.—MOTORS—FLUID.***

1. Miscellaneous.
- Rotary tool-driving—
2. Peripheral-supply,
3. End-supply.
4. Tide or wave—
5. Floating,
6. Pendulum—
7. Float,
8. Float—
9. Tank-contained,
10. Vertically-guided,
11. Pivoted,
12. Reciprocating-carriage,
13. Endless-chain,
14. Rotary.
- Grain-weighter type—
15. Oscillating-bucket,
- Rotary—
- Peripheral-supply—
- Gravity-bucket—
- Intermittent.
16. Water-operated—
17. Float,
18. Oscillating-bucket,
19. Endless-chain—
20. Gravity-bucket,
21. Rotary—
- Peripheral-supply—
- Reversing,
23. Jet—
24. Automatic-control,
25. Plural shafts,
26. Single-shaft—
27. Gravity-bucket—
28. Horizontal-axis—
29. Intermittent,
30. Pivoted-bucket,
- End-supply—
31. Series,
32. Center-supply—
33. Gravity-bucket—
34. Horizontal-axis—
35. Intermittent.
36. Gas-operated—
37. Atmospheric—
38. Rotary end-supply,
39. Rotary—
40. Peripheral-supply—
41. Injected-fluid,
- Plural shafts—
- Series—
42. Jet—
43. Reversely-rotating,

253.—MOTORS—FLUID—Continued.

- Gas-operated—Continued.
- Rotary—Continued.
- Peripheral-supply—Contd.
- Single-shaft—
- Opposed-delivery—
44. End-supply,
45. Endwise-flow,
46. Series—
- Jet—
47. Reversing,
48. Peripheral-supply,
49. Endwise-flow,
50. Jet—
51. Reversing,
52. Automatic-control,
53. Serial-flow—
54. Reactive-delivery,
55. Center-delivery,
56. Plural,
- End-supply—
57. Injected-fluid,
58. Automatic-control,
59. Plural shafts—
- Reversing,
60. Series—
61. Reversely-rotating—
62. Reversing—
63. Alternately-lock-
ed,
64. Single-shaft—
65. Serial-flow,
66. Opposed-delivery,
67. United-delivery,
68. Series—
69. Reversing,
70. Reentrant radial flow—
71. Reversing,
72. Reversing,
73. Opposed-supply,
74. Double-bucket—
- Intermediate-supply,
75. With condensate-separa-
tor,
76. Buckets or haffles,
77. Nozzles or valves,
78. Center-supply—
79. Injected-fluid,
80. Reversing,
81. Automatic-control,
82. Plural shafts—
- Series—
- Reversely-rotating—
83. Reaction-wheel,
84. Single-shaft—
- Reaction-wheel,
85. Opposed-delivery,
86. Opposed-supply,
87. Series—
- Endwise-flow,
88. Reaction-wheel,
89. Jet,
90. Reaction—
91. Serial-bucket,
92. Serial-flow,
93. Serial-bucket,
94. Serial-bucket,
95. Single-bucket.
96. Rotary—
- Peripheral-supply—
97. Automatic-control,
- Plural shafts—
- Reversely-rotating,
98. Series,
99. Jet,
100. Single-shaft—
- Angular-vane—
101. Opposed-delivery—
102. Scroll,
103. United-delivery,
104. Jet,
- Reversing,
105. Series—
- End-delivery—
106. Scroll,
107. Angular-vane,
108. Jet,
109. Opposed-delivery—
110. Scroll,
111. Jet—
112. Divided-bucket,
113. Double-bucket,
114. Staggered-bucket,
- End-delivery—
115. Angular-vane—
116. Parallel-supply,
117. Scroll,
118. Axially-movable gate,
119. Pivoted-gate,
120. Rotary annular gate,
121. Scroll—
122. Plural—
123. Parallel-supply,
124. Axially-movable gate,
125. Pivoted-gate,
126. Jet—
127. Reversely-rotating,
- 128.

* See Definitions of Revised Classes.

- 253.—MOTORS—FLUID—Continued.**
Rotary—Continued.
 Peripheral-supply—Contd.
 End-delivery—Continued.
 129. Jet—
 130. Plural—
 131. Pivoted-gate,
 132. Parallel-supply,
 Center-delivery—
 Jet—
 133. Peripheral-delivery,
 134. Scroll,
 135. Jet—
 136. Reversing,
 137. Automatic-control—
 138. Flow-operated,
 139. Plural,
 140. End-supply—
 141. Reversing,
 142. Automatic-control—
 143. Flow-operated,
 144. Plural shafts—
 145. Series—
 146. Reversely-rotating,
 147. Single-shaft—
 148. Opposed-delivery,
 149. United-delivery,
 150. Parallel-supply,
 151. Series,
 152. Angular-vane—
 153. Axially-movable gate,
 154. Pivoted-gate,
 155. Rotary annular gate,
 156. Scroll,
 157. Jet—
 158. Plural—
 159. Rotary annular gate,
 160. Center-supply—
 Plural shafts—
 Series—
 161. Reversely-rotating,
 162. Single-shaft—
 163. Series,
 164. Reversing,
 165. Automatic-control,
 166. Angular-vane—
 167. Axially-movable gate,
 168. Pivoted-gate,
 169. Rotary annular gate,
 170. Scroll,
 171. Jet,
 172. Reaction—
 173. Axially-movable gate,
 174. Tube-wheel.
Rotary pumps—
 176. Peripheral-supply,
 End-supply—
 177. Plural shafts—
 Series—
 178. Reversely-rotating,
 179. Single-shaft—
 180. Opposed-delivery,
 181. Opposed-supply,
 182. Series,
 183. Tangential-delivery,
 Center-supply—
 Plural shafts—
 Series—
 184. Reversely-rotating,
 185. Single-shaft—
 186. Series—
 187. Concentric,
 188. Opposed-supply—
 189. Tangential-delivery—
 190. Angular-vane,
 191. Tube-wheel,
 192. Single-supply—
 193. Angular-vane—
 194. Tangential-delivery,
 195. End-flow,
 196. End-delivery,
 197. Center-delivery,
 198. Tangential-delivery,
 199. Tube-wheel.
 200. Tube-wheel.
 201.

254.—PUSHING AND PULLING IMPLEMENTS.*

1. Miscellaneous.
2. Hoisting-trucks—
3. Tilting load-support,
4. Cable-hoist,
5. Inclined-plane or wedge,
6. Rack and pinion or segment,
7. Screw,
8. Single-throw lever—
9. Toggle,
10. Parallelogram-bars.

- 254.—PUSHING AND PULLING IMPLEMENTS—Continued.**
 11. Floor-jack type—
 12. Rack and pinion or segment,
 13. Screw,
 14. Step-by-step traveling member,
 15. Single-throw lever and bar—
 16. Sliding-bar,
 17. Single-throw lever.
Nail-extractor type—
 18. Hammer and anvil,
 19. Screw,
 20. Single-throw lever—
 21. Lever and pivoted-jaw grip,
 22. Multiple-jaw grip—
 23. Cam or wedge actuated,
 24. Claw-bar—
 25. Hammers,
 26. Pivoted fulcrum member.
Staple-pullers.
Pipe or rod jacks—
 28. Lifters—
 29. Reciprocating-clutch.
Axle-lubricating jacks.
Car-journal-box lifting—
 32. Suspended-lifter.
Car-pusher type—
 34. Pinch-bar—
 35. Rail-clamping,
 36. Pivoted wheel-engaging member.
 37.
 38.
 39. Door-braces.
Printers' quoins—
 40. Screw,
 41. Wedge.
Rail or tie shifters—
 43. Single-throw lever.
Vehicle-body lifters—
 44. Lever and drum,
 45. Cable-hoist—
 46. Vehicle-attached drum,
 47. Swinging side bars—
 48. Single fixed pivot.
Stretcher type—
 50. Belt—
 51. Cable-actuated,
 52. Screw,
 53. Step-by-step traveling member—
 54. Multiple driving-pawls,
 55. Carpet—
 56. Cable-actuated,
 57. Rack and pinion or segment,
 58. Step-by-step traveling member—
 59. Pawl-actuated,
 60. Single-throw lever—
 61. Pivoted thrust-bars,
 62. Reel-carriers and stretchers,
 63. Block and tackle,
 64. Rack and pinion or segment,
 65. Screw,
 66. Step-by-step traveling bar—
 67. Clutch-actuated—
 68. Multiple driving-clutches,
 69. Pawl-actuated—
 70. Multiple driving-pawls,
 71. Reciprocating lever-actuated grip—
 72. Chain—
 73. Multiple pulling-grips,
 74. Multiple pulling-grips,
 75. Single-throw lever—
 76. Chain-tighteners,
 77. Strap or band tighteners,
 78. Jointed-lever grip,
 79. Multiple grips—
 80. Post-straddling,
 81. Fence-engaging devices.
Traversing jacks—
 82. Screw.
Attached vehicle-jacks—
 83. Turntable.
 84.
 85. Incline d-plane lifters.
Multiple lifters—
 86. Track-straddling platform,
 87. Swinging-platform,
 88. Screw.
 89.
 90. Fluid-pressure.
Rocking supports.
Rack-and-pinion—
 93. Screw-pinion,
 94. Geared.
 95.
 96. Screw—
 97. Derrick type,
 98. Special engaging feature—
 99. Rocking head or base,
 100. Telescoping screws,
 101. Geared.
 102. Wedge.
Step-by-step traveling bar—
 103. Clutch-actuated—
 104. Multiple driving-clutches,
 105.
 106.
 107.

- 254.—PUSHING AND PULLING IMPLEMENTS—Continued.**
Step-by-step traveling bar—
 Continued.
 108. Pawl-actuated—
 109. Multiple driving-pawls—
 110. Reversing,
 111. Rack-and-lever.
Single-throw lever and bar—
 112. Sliding-bar—
 113. Rack-bar and segment,
 114. Adjustable—
 115. Lateral-shoe,
 116. Rack-bar,
 117. Adjustable.
Single-throw lever—
 118. Rail or tie lifters,
 119. Lazy-tongs,
 120. Lever-supported thrust-bar,
 121. Mechanically-actuated—
 122. Vehicle-tongue connection,
 123. Screw,
 124. Cable—
 125. Block and tackle,
 126. Adjustable—
 127. Multiple fulcrums,
 128. Special engaging feature—
 129. Root-puller type.
Special engaging elements—
 130. Adjustable.
Cable—
 131. Coffin-lowering,
 132. Fish-net hauling—
 133. Grip feature,
 134. Derrick-hoists—
 135. Tobacco-hanger,
 136. Theater-curtain type,
 137. Building-supported,
 138. Extensible load-support,
 139. Multiple-cable,
 140. Drum—
 141. Lever-actuated,
 142. Reciprocating surface cable,
 143. Cable-actuated sliding members,
 144. Quick take-up devices,
 145. Drum—
 146. Fire-escape type—
 147. Spring-actuated—
 148. Suspended—
 149. Suspended—
 150. Pulley-block,
 151. Cable-brake,
 152. Centrifugal-brake,
 153. Fluid-brake,
 154. Centrifugal-brake,
 155. Fluid-brake,
 156. Stretcher type—
 157. Post-engaging—
 158. Lever-actuated,
 159. Lever-actuated,
 160. Spring-compensator,
 161. Wheeled-carrier,
 162. Suspended—
 163. Motor-actuated,
 164. Hand-cable actuated—
 165. Screw-gearing,
 166. Spur-gearing,
 167. Variable-tension compensating,
 168. Automatic-control—
 169. Combined stops,
 170. Slack-cablestops,
 171. Cable-driving—
 172. Multiple,
 173. Counterbalance feature,
 174. Sweep-actuated—
 175. Horizontal-axis—
 176. Clutch-controlled,
 177. Clutch-controlled,
 178. Multiple drums—
 179. Horizontal-axis—
 180. Clutch-controlled,
 181. Horizontal-axis—
 182. Clutch-controlled,
 183. Block and tackle—
 184. Multiplying sheaves,
 185. Guides—
 186. Grip-pulley,
 187. Blocks—
 188. Opening—
 189. Attachment feature,
 190. Detaching devices,
 191. Guide or guard feature.
 192.
 193.
 194.
 195.
 196.
 197.

* See Definitions of Revised Classes.

255.—EARTH-BORING.*

1. Miscellaneous.
2. Rigs—
3. Combination,
4. Advancing-motor,
5. Impact-tool—
6. Automatic grip and release,
7. Crank-actuator—
8. Loose arm or pin,
9. Drum or reel actuator,
10. Reciprocating-actuator,
11. Rocking-arm—
12. Cam or tappet actuated,
13. Quick-drop,
14. Turning devices,
15. Feeding devices,
16. Cushioning devices,
17. Shifting devices,
18. Adjusters,
19. Rotary-tool—
20. Horizontal type,
21. With carrier,
22. Feed,
23. Rotaries,
24. Washers—
25. Fluid-circulating heads,
26. Drill-swivels and sockets,
27. Jars,
28. Rods—
29. Guides,
30. Joints—
31. Screw—
32. Lock,
33. Rope-guards,
34. Rope-knives,
35. Wrenches.
- Rock-drilling machines—**
37. Impact—
38. Piston-driven,
39. Spring-driven,
40. Free-impact,
41. Hammer—
42. Reciprocating,
43. Rotating mechanism—
44. Hand-hammer,
45. Feeding devices,
46. Rotary—
47. Motor-operated,
48. Ratchet-operated,
49. Washers—
50. Dust and sludge collectors,
51. Supports—
52. Single end engagement
53. Column,
54. Legged.
- Rock-drill chucks—**
56. Socket—
57. Wedge,
58. Split,
59. Detent.
- Hole-clearers.**
61. Drills, bits, and augers—
62. Non-circular hole,
63. Impact—
64. Fluid-passage,
65. Dirt-releasing,
66. Blade type,
67. Pod or shell—
68. Bottom-valve,
69. Screw—
70. Plate,
71. Roller,
72. Core,
- Reamers—**
74. Expandible—
75. Longitudinally-movable bit,
76. Pivoted-bit,
77. Resilient-bit,
78. Rocking-bit.

256.—FENCES.*

1. Miscellaneous.
2. Barbed—
3. Guarded—
4. Visible,
5. Fabrics,
6. Strands—
7. Single—
8. Integral-barb,
9. Sectional.
10. Electric.
11. Top-guarded—
12. Unstable.
13. Flood.
14. Track-guard—
15. Rocking,
16. Rotary,
17. Bar—
18. Pronged.

256.—FENCES—Continued.

19. Earth, stone, plastic, and wooden.
20. Hedge.
21. Metallic—
22. Picket.
23. Suspended.
24. Panel—
25. Inclosure,
26. Hinged,
27. Angle—
28. Tied,
29. Tied—
30. Braced,
31. Braced.
32. Wire—
33. All-wire,
34. Picket,
35. Braced—
36. Trussed,
37. Stretcher—
38. Gravity,
39. Spring,
40. Winder—
41. Multiple,
42. Bracket,
43. Internal,
44. Lateral,
45. Fabrics,
46. Strands,
47. Connections—
48. Cross—
49. Facing-strip,
50. Plastic—
51. Reinforced,
52. Multiple,
53. Non-aligned slots
54. Clamp—
55. Screw,
56. Wedge,
57. Tie,
58. No-clip.
59. Rail—
60. Angle—
61. Tied,
62. Tied—
63. Braced,
64. Braced,
65. Connections—
66. Plastic,
67. Adjustable,
68. Clamp—
69. Screw,
70. Wedge,
71. Tie,
72. No-clip.
73. Panels.

257.—HEAT EXCHANGE.*

1. Miscellaneous.
2. Automatic-control—
3. Combined heating and cooling—
4. Liquid—
5. Regenerative.
6. Heating and cooling—
7. Car,
8. Building,
9. Air,
10. Liquid—
11. Regenerative.
12. Body—
13. Coffin type.
14. Barrel—
15. Internal-tube.
16. Muffler type.
17. Chamber—
18. Air-pump circuit,
19. Liquid-pump circuit,
20. Radiator type,
21. Casing,
22. Internal-tube,
23. Conveyor.
24. Condensers—
25. Motor-vehicle,
26. Ship,
27. Convertible jet or surface,
28. Surface—
29. Separator,
30. Still,
31. Feed-heater type,
32. Condensate-cooler,
33. Varied-surface,
34. Receptacle-closure,
35. Liquid-trickler,
36. Air—
37. Water injected to air,
38. Water injected to steam,
39. Air-pump,
40. Water injected to steam,

257.—HEAT EXCHANGE—Continued.

- Condensers—Continued.
- Surface—Continued.
41. Air injected to steam,
42. Plural-outlet,
43. Horizontal water-tube—
44. Pump system,
45. Spur-tube,
46. Radiator type—
47. Varied-surface—
48. Condensate varied,
49. Loop-tube,
50. Spur-tube,
51. Processes.
- Gas and liquid contact—**
- Trickler—
54. Exchange-tube—
55. Liquid-circuit,
56. Vertical air-tube—
57. Air-pump,
58. Closed-chamber,
59. Agitator,
60. Agitator, evaporative—
61. Closed-chamber,
62. Gas-injected—
63. Agitator,
64. Closed-chamber,
65. Liquid-injected—
66. Preliminary exchanger,
67. Horizontal exchange-tube,
68. Horizontal air-tube,
69. Vertical air-tube,
70. Gas-pump,
71. Liquid-circuit,
72. Liquid-circuit.
- Agitators and conveyers—**
- Operated by exchange fluid,
75. Shakers,
76. Tank—
77. Liquid-circuit,
78. Tube-agitator—
79. Horizontal rotary—
80. Exposed to atmosphere,
81. Horizontal rotary internal tank,
82. Horizontal rotary agitator,
83. Jacketed—
- Horizontal rotary-tube agitator,
84. Horizontal rotary agitator,
- Internal-tube—
85. Horizontal rotary agitator,
- Horizontal jacketed cylinder—
- Rotary-conveyer,
87. Horizontal rotary cylinder—
88. Jacketed—
89. Closed-cylinder—
90. Internal-tube,
91. Internal-tube—
92. Internal-tube—
93. Closed-cylinder,
94. External-trickler,
95. External-exchange—
96. Scraper—
97. Plural-liquid,
98. Bottom-feed,
99. Floated-product,
- Internal-exchange—
100. Scraper,
101. Horizontal rotary conveyer,
102. Horizontal rotary,
103. Vertical tank—
104. Vertical rotary-tube agitator,
105. Internal annular tank,
- Internal-tube—
106. Vertical rotary agitator,
- Jacketed—
107. Vertical rotary-tube agitator,
108. Vertical rotary agitator,
- Internal-tube—
109. Vertical rotary agitator,
- Vertical rotary drum—
- Conveying-scraper,
111. Annular liquid film,
112. Vertical rotary conveying-agitator,
- Vertical rotary scraper—
113. Floated-product,
114. Trickler,
- Vertical rotary plate—
115. Liquid-film,
116. Plate—
117. Vertical rotary agitator,
- Superposed—
118. Vertical rotary agitator,
119. Vertical rotary-tube agitator,
- Vertical rotary.
120. Vertical rotary.
121. Subterranean—
122. Liquid—
123. Filter.

* See Definitions of Revised Classes.

257.—HEAT EXCHANGE—Continued.

124. Radiator type—
125. Motor-vehicle—
126. Air-pump,
127. Water-pump,
128. Horizontal air-tube,
129. Vertical water-tube—
130. Flat,
131. Zigzag water-tube,
132. Casings and shields,
133. Baseboard,
134. Varied-surface,
135. Bottom air-box,
136. Incased—
137. Air-pump,
138. Air-moistener,
139. Sheet-metal—
140. Vertical sectional,
141. Vertical air-tube—
142. Annular—
143. Sheet-metal,
144. Loop-tube—
145. Vertical,
146. Spur-tube—
147. Vertical,
148. Zigzag—
149. Vertical-plane,
150. Integral-fin,
151. Vertical sectional,
152. Horizontal sectional,
153. Single-plane sectional,
154. Top and bottom header,
155. Grid,
156. Rack,
157. Shelf,
158. Horizontal-plate,
159. Flow-control,
160. Joints and tips—
161. Sectional-type,
162. Flexible-connection,
163. Supports,
164. Heating-drum type—
165. Chimney by-pass,
166. Air-conduit—
167. Vertical-drum—
168. Down and up gas-flow,
169. Symmetrical—
170. Annular-tube,
171. Transverse air-tube,
172. Vertical-drum—
173. Symmetrical—
174. Tube type—
175. Top and bottom header,
176. Zigzag
177. Tube type.
178. Trickler—
179. Two-fluid flow—
180. Casing—
181. Pressure,
182. Horizontal-plate,
183. Zigzag-tube—
184. Casing,
185. Plural-tube,
186. Casing,
187. Vertical-plate,
188. Horizontal-plate,
189. Tank—
190. Interior.
191. Tank—
192. Indirect-exchange,
193. Inverted-bottle type,
194. Annular,
195. Annular internal tank,
196. Internal pressure-chamber—
197. Annular-shell,
198. Internal-tube—
199. Removable,
200. Movably-attached,
201. Annular,
202. Air-pump,
203. Vertical liquid-tube—
204. Liquid-pump circuit,
205. Vertical-coil,
206. Vertical zigzag,
207. Bottom-connection,
208. Jacketed—
209. Internal annular shell,
210. Internal-tube,
211. Circular-section,
212. Cylindrical,
213. Float.
214. Air-pump.
215. Liquid-circuit.
216. Vertical-casing—
217. Filter,
218. Internal flat plate,
219. Internal vertical-tube drum,
220. Internal-tube—
221. Vertical-loop,
222. Vertical-return,
223. Vertical zigzag,

257.—HEAT EXCHANGE—Continued.

- Vertical-casing—Continued.
- Internal-tube—Continued.
- Vertical—
224. One internal header—
225. Return-tube,
226. Two internal headers,
227. Annular,
228. Vertical-coil,
229. Horizontal zigzag,
230. Vertical-spur,
231. Annular-film.
232. Horizontal-casing—
233. Internal-tube—
234. Horizontal,
235. Annular,
236. Spur,
237. Loop,
238. Zigzag,
239. Zigzag,
240. Ziggag,
241. Plural confined fluids—
242. Liquid—
243. Annular-film,
244. Air-pump,
245. Plate-conduit,
246. Annular-tube—
247. Zigzag—
248. One confined fluid—
249. Annular-tube,
250. Annular-shell,
251. Vertical-tube—
252. Zigzag—
253. Flow-control,
254. Spur-tube,
255. Zigzag,
256. Plate,
257. Disk,
258. Fan,
259. Hollow-fan.
260. Cylinders.
261. Conduits.
262. Heat-transmitters.
- 263.

258.—RAILWAY MAIL DELIVERY.*

1. Miscellaneous.
2. Signaling feature.
3. Hand-tools.
4. Magnetic.
5. Projectors—
6. Automatically-actuated—
7. Spring.
8. Car-positioned receiver or support.
9. Laterally-sliding receiver or support.
10. Longitudinally-extending auxiliary track.
11. Combined receiver and support.
12. Fork and other receiver—
13. Retaining feature,
14. Fork-receiver only—
15. Retaining feature—
16. Impact-operated load-release.
17. Receiver-engaging feature,
18. Receiver-engaging feature,
19. Impact-operated load-release.
20. Receivers—
21. Fork—
22. Retaining feature.
23. Supports—
24. Interconnected arms,
25. Impact-operated load-release,
26. Receiver-engaging feature.

259.—AGITATING.

2. Ice-cream-freezer type.
1. Miscellaneous.

261.—GAS AND LIQUID CONTACT APPARATUS.

2. Condensers.
3. Coolers.
4. Heaters.
1. Miscellaneous.

* See Definitions of Revised Classes.

263.—HEATING.*

1. Miscellaneous.
2. Articles—
3. Continuous-strip,
4. Circular—
5. Fluid-fuel,
6. Work manipulation—
7. Rotary-carrier,
8. Endless-carrier,
9. Fluid-fuel.
10. Furnaces—
11. Pot—
12. Rotary—
13. Fluid-fuel,
14. Fluid-fuel,
15. With gas-heater—
16. Rotary-chamber,
17. Multiple-chamber—
18. Externally-heated,
19. Gas-heating—
20. Separate flues,
21. Agitating—
22. Rotary-chamber,
23. Reciprocating-stirrer,
24. Endless-stirrer,
25. Rotary-stirrer—
26. Vertical,
27. Combined shaft and hearth,
28. Traveling-support,
29. Shaft—
30. Baffle—
31. Moving,
32. Rotary-chamber—
33. Single—
34. Externally-heated,
35. Vertical,
36. Multiple-chamber—
37. Externally-heated—
38. Fluid-fuel,
39. Fluid-fuel,
40. Single-chamber—
41. Externally-heated—
42. Fluid-fuel,
43. Fluid-fuel,
44. Cooling,
45. Waste-receptacles,
46. Masonry structure.
47. Receptacles—
48. Pots,
49. Boxes.
50. Heat-screens.

264.—SPEED-RESPONSIVE DEVICES.*

1. Miscellaneous.
2. With driving mechanism.
3. With modifiers—
4. Automatic—
5. Differential—
6. Inertia,
7. Fluid-pressure,
8. Electric.
9. Differential—
10. Brake,
11. Inertia.
12. Resistance—
13. Clutch,
14. Fluid-pressure.
15. Centrifugal—
16. Parallel-pivot,
17. Guided,
18. Spring-support,
19. Fluid,
20. Balanced.

266.—METALLURGICAL APPARATUS.*

1. Miscellaneous.
2. Treating solid metal—
3. Continuous-strip,
4. With heat and liquid,
5. With heat,
6. With liquid—
7. Pickling.
8. Treating with heat and liquid.
9. Combined operation—
10. Roasting and smelting,
11. Smelting and refining,
12. Leaching and precipitating.
13. Plants.
14. With gas-heater.

266.—METALLURGICAL APPARATUS—Continued.

- 15. With fume-arrester—
- 16. Heating-furnace—
- 17. Shaft,
- 18. Rotary-chamber,
- 19. Retort.
- 20. Roasting—
- 21. Grate.
- 22. Precipitating.
- 23. Blowpipes.
- 24. Furnaces—
- 25. Shaft—
- 26. Explosion-control,
- 27. Charging—
- 28. Pneumatic,
- 29. Feeding fluids—
- 30. Air,
- 31. Tops and offtakes,
- 32. Cooling,
- 33. Melting.
- 34. Treating molten material—
- 35. Converters—
- 36. Rotary,
- 37. Separating,
- 38. Discharging,
- 39. Receptacles.
- 40. Forehearth.
- 41. Twyers.
- 42. Plugging and tapping.
- 43. Linings.

267.—SPRING DEVICES.

- 26. Bending—
- 27. Leaf—
- 35. Bands,
- 34. Cap and bed plates,
- 32. Elliptic and leaf,
- 36. Elliptic, end joints,
- 37. End connections,
- 28. Inclosed,
- 30. Platform—
- 31. Parallel springs,
- 33. Structure,
- 29. Twin.

267.—SPRING DEVICES—Continued.

- 52. Braces—
- 53. Sliding guides.
- 42. Coll—
- 47. Cap and bed plates,
- 44. Form and structure—
- 45. Conical volute,
- 46. Frictional-coil,
- 43. Platform.
- 16. Compound—
- 23. Coil and deformable,
- 24. Coil and fluid-pressure,
- 25. Deformable and fluid-pressure,
- 19. Leaf and coil—
- 20. Platform,
- 21. Leaf and deformable,
- 22. Leaf and fluid-pressure,
- 17. Leaf and torsion—
- 18. Platform.
- 48. Deformable.
- 10. Elastic tension devices—
- 11. Compression—
- 12. Single—
- 13. Draw-bars inclosed,
- 14. Tension—
- 15. Single.
- 50. Fluid-pressure—
- 51.5. Buffer type,
- 51. Platform.
- 49. Fluid-pressure and liquid.
- 8. Lever—
- 9.5. Buffer type,
- 9. Platform.
- 1. Miscellaneous.
- 4. Parallel-depression—
- 5. Positive connections—
- 6. Duplex—
- 7. Single-point.
- 2. Springs and retarders—
- 3. Coil and frictional.
- 38. Torsion—
- 40. Coil—
- 41. Volute,
- 39. Platform.

268.—CLOSURE-OPERATORS.

- 5. Cab-door.
- 6. Car-door.
- 7. Car-platform door.
- 2. Counter-guard.
- 3. Hatch.
- 1. Miscellaneous.
- 8. Sliding-door.
- 9. Swinging-door.
- 4. Window.

269.—RAILWAY-GATES.

- 3. Electric.
- 5. Mast, automatic.
- 1. Miscellaneous.
- 2. Platform-guard.
- 4. Pneumatic.
- 9. Rocking.
- 8. Sliding.
- 7. Swinging.
- 6. Vertically-moving.

272.—FLEXIBLE - SHEET - SECURING DEVICES.

(No subclasses.)

273.—CONTINUOUS-STRIP FEEDING

(No subclasses.)

* See Definitions of Revised Classes.

ALPHABETICAL INDEX OF CLASS AND SUBCLASS TITLES.

The following is an index of all class and subclass titles used in the Patent Office classification and of all words contained in those titles thought to be useful to searchers.

Names or other words not found in the classification titles are not indexed.

The significance of many of the titles in the index is obscure unless they are read in connection with the titles of the classes, the numbers of which follow the index titles.

The numbers and names of all classes arranged in numerical order are on the folded sheet or paster immediately following the index.

The arrangement of titles is strictly alphabetical, except that phrases having the same first word are grouped together. Two words connected by a hyphen are treated as two words.

Thus:

Weight, Sash-cord fasteners.
Weight-testers, Fraud-preventives.
Weighted cylinders, Land-rollers.
Weights.

Not thus:

Weighted cylinders, Land-rollers.
Weights.
Weight, Sash-cord fasteners.
Weight-testers, Fraud-preventives.

A.

- Abraded and roughened, Surface type. Cl. 41-39+.
- Abrading materials and tools. Cl. 51-1.
- Abrasion, Lubricators, force-feed, fluid-operated. Cl. 184-60.
- Abrasion, Machines. Cl. 91-36.
- Absorbed gas, Packing chemicals. Cl. 23-29.
- Absorbent. Cl. 34-1.
- Absorbent: *See* Fixed reservoir or, Cl. 216.
- Absorbent: *See* Moving reservoir or, Cl. 216.
- Absorbent, Burners, liquid-fuel. Cl. 158-96+.
- Absorbent surface, Ventilation, air moistening, cooling, and cleansing. Cl. 98-44.
- Absorbent surface, Ventilation, combined ventilators and cleaners. Cl. 98-34.
- Absorber, Refrigerators, liquefied gas. Cl. 62-93.
- Absorber, Still-condenser, expander-circuit. Cl. 62-119.
- Absorbers, Fire-kindlers. Cl. 44-5.
- Absorbing-still condensing-expander. Cl. 62-120.
- Abutments and anchorages, Arch. Cl. 14-26.
- Accelerating. Cl. 89-8.
- Accelerating, Bar, actions. Cl. 197-28.
- Accelerating, Cartridges. Cl. 102-13.
- Accessories. Cl. 123-198.
- Accessories: *Cf.* Adjuncts.
- Accessories: *Cf.* Attachments.
- Accessories, Generators, cupola. Cl. 48-87.
- Accessories, Kites. Cl. 244-24.
- Accessories, Microscopes. Cl. 88-40.
- Accessories, Sectional. Cl. 122-231.
- Accordions. Cl. 48-1.
- Accumulator. Cl. 122-35.
- Accumulator: *See* Heat. Cl. 237.
- Accumulators. Cl. 103-45.
- Accumulators: *See* Tide and wave. Cl. 61.
- Acetate: *See* Ammonium. Cl. 134.
- Acetylene. Cl. 48-1+.
- Acetylene, Burners, gas. Cl. 158-101.
- Acetylene, Gaseous-fuel burners. Cl. 67-105.
- Acetylene, Processes. Cl. 48-216+.
- Acid-feed siphon, Gas-generators. Cl. 209-6.
- Acid-proof: *Cf.* Antrist.
- Acid-proof, Receptacles. Cl. 206-2.
- Acid, sulfurous, Stock treatment, digestive. Cl. 92-11+.
- Acids, mineral. Cl. 23-1.
- Acoustics. Cl. 181.
- Actinometers. Cl. 95-10.
- Action-locks, Ribbon mechanism, signals. Cl. 197-174.
- Actions: *See* Electric. Cl. 84.
- Actions: *See* Stop. Cl. 84.
- Actions, Bar. Cl. 197-27+.
- Actions, Organ. Cl. 84-19+.
- Actions, Piano. Cl. 84-26+.
- Active on transit, Systems. Cl. 243-7+.
- Actuated, Clocks, electric, pendulum. Cl. 58-30.
- Actuating mechanism, Turntables. Cl. 104-214.
- Adapters: *See* Socket. Cl. 173.
- Adders: *See* Detail. Cl. 235.
- Adding-pencils, Calculators. Cl. 235-64.
- Additional air-supply. Cl. 123-26.
- Additional carbureter, Burners, liquid-fuel, retort. Cl. 158-58+.
- Address-printers. Cl. 101-1+.
- Adhering seam-forming. Cl. 154-42.
- Adhesive: *See* Chipping with. Cl. 41.
- Adhesive applying or moistening, Machines, affixing-magazine, stationary. Cl. 216-43+.
- Adhesive, Machines, storage-magazine, label-pickers. Cl. 216-54.
- Adhesives. Cl. 87-17.
- Adjacent supply and exhaust valves, Four-cycle. Cl. 123-84.
- Adjuncts: *Cf.* Accessories.
- Adjuncts, Cigar-machines. Cl. 131-39.
- Adjustable. Cl. 108-2.
- Adjustable. Cl. 248.
- Adjustable, Acetylene, generators, water-feed, capillary. Cl. 48-26.
- Adjustable and collapsible, Shade, reflector, or globe supports. Cl. 240-117.
- Adjustable and divided, Finger-rings. Cl. 63-16.
- Adjustable, Apparel, laying out. Cl. 33-16.
- Adjustable, Apparel, laying out, patterns and charts. Cl. 33-14+.
- Adjustable arm, Display-racks. Cl. 211-15.
- Adjustable arms, Soldering, clamps. Cl. 113-104.
- Adjustable backs and seats, Chairs. Cl. 155-28.
- Adjustable Backs, Chairs. Cl. 155-27.
- Adjustable blades, Impellers, crank-paddle. Cl. 170-140.
- Adjustable blades, Impellers, paddle-wheel. Cl. 170-155.
- Adjustable blades, Impellers, screw. Cl. 170-174.
- Adjustable blades or buckets, Wind-motors, rotary, transverse axis. Cl. 170-31+.
- Adjustable blades, Water-motors, endless chain. Cl. 170-93.
- Adjustable blades, Water-motors, rotary, parallel axis. Cl. 170-132.
- Adjustable blades, Water-motors, rotary, transverse axis. Cl. 170-123.
- Adjustable blades, Wind-motors, rotary, parallel axis. Cl. 170-59+.
- Adjustable, Book and music holders, base-supported. Cl. 45-80.
- Adjustable, Book and music holders, bracket-supported. Cl. 45-82.
- Adjustable, Brackets, shelf. Cl. 248-19.
- Adjustable, Buttons and fasteners. Cl. 24-91.
- Adjustable, Cameras, plate-holders, plate-fastenings and kits. Cl. 95-69.
- Adjustable, Casters. Cl. 16-164.
- Adjustable, Chairs, folding. Cl. 155-30.
- Adjustable combustion-chamber. Cl. 123-48.
- Adjustable, Cuff-holders. Cl. 24-42.
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- Adjustable cutting-lip, Augers. Cl. 145-127.
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- Automatic control, Regulation, fuel and water. Cl. 122-148+.
- Automatic control, Rotary, center supply, single shaft. Cl. 253-166.
- Automatic control, Rotary, end supply. Cl. 253-143+.
- Automatic control, Rotary, peripheral supply. Cl. 253-97.
- Automatic control, Rotary, peripheral supply, jet. Cl. 253-138+.
- Automatic control, Steering and propulsion. Cl. 172-282.
- Automatic control, Water-operated, rotary, peripheral supply, jet. Cl. 253-24.
- Automatic cut-off, Lubricators, gravity-feed. Cl. 184-66+.
- Automatic cut-off, Speed-regulators, charge-volume varying. Cl. 123-110.
- Automatic cut-offs, Gaseous-fuel burners. Cl. 67-113+.
- Automatic cut-offs, Milking-machines, suction. Cl. 31-97.
- Automatic detent, Latches. Cl. 70-64.
- Automatic dilution, Carbureters, atomizers, constant level. Cl. 48-155.2.
- Automatic dilution, Charge-forming devices. Cl. 123-124.
- Automatic door-locks, Cars. Cl. 105-265.
- Automatic dot, Code-transmitters. Cl. 178-82.
- Automatic dump, Binders, sheaf-carriers. Cl. 56-120.
- Automatic, Eyeglasses and spectacles, nose-grips, adjustable. Cl. 88-50.
- Automatic fans. Cl. 230-1.
- Automatic feed, Chain-making, combined machines, cutting and bending. Cl. 59-24+.
- Automatic feed, Circular-saw machines, reciprocating carriage. Cl. 143-53.
- Automatic feed, Corking-machines. Cl. 226-5.
- Automatic feed, Corking-machines, compressing. Cl. 226-7.
- Automatic feed, Generators, retort, oil. Cl. 48-106.
- Automatic, Feeders, gravity. Cl. 122-456+.
- Automatic, Filling-cans, nozzles, cut-offs. Cl. 221-134+.
- Automatic, Filling-machines, cut-offs. Cl. 226-124+.
- Automatic, Fire-kindlers. Cl. 44-6.
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- Automatic, Gaseous-fuel burners, regulating. Cl. 67-119.
- Automatic grip and release, Rigs, Impact-tool. Cl. 255-6.
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- Automatic, Hand-oilers, feed-controllers. Cl. 21-42.
- Automatic heat regulation, Steam treatment, superheater. Cl. 122-479.
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- Automatic, Incandescent, pyroelectric, circuit-controlling structure. Cl. 176-20.
- Automatic, Inkstands, fountain. Cl. 120-61.
- Automatic, Inkstands, fountain, flexible diaphragm. Cl. 120-64.
- Automatic instruments. Cl. 84.
- Automatic, Light-supports, dirigible. Cl. 240-62.
- Automatic, Line-spacing. Cl. 197-120.
- Automatic, Linear, non-motor traverse, load-handling, discharging. Cl. 212-137.
- Automatic, Locked nut, side lock, flexible. Cl. 151-50+.
- Automatic, Milling, pattern-controlled, reproducing. Cl. 90-13.8.
- Automatic, Milling, pattern-controlled, reproducing, duplicating. Cl. 90-13.5.
- Automatic, Milling, pattern-controlled, reproducing, duplicating, rotary work. Cl. 90-13.4.
- Automatic, Milling, pattern-controlled, reproducing, rotary work. Cl. 90-13.7.
- Automatic nozzles and sprinklers. Cl. 169-5.
- Automatic pans or forms, Bakers' ovens, charging and removing devices, endless carrier. Cl. 107-58.
- Automatic, Pen and pencil cases, clutch. Cl. 120-22.
- Automatic, Pen and pencil cases, compound. Cl. 120-11.
- Automatic, Pole-changers. Cl. 175-352.
- Automatic, Portable. Cl. 169-14.
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- Automatic regulation, Systems. Cl. 171-312.
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- Automatic, Repeaters. Cl. 178-71+.
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- Automatic return, Reciprocating-saw machines, drag. Cl. 143-62.
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- Automatic, Sawmill set-works. Cl. 143-115.
- Automatic, sediment-valve, Feed-heaters, internal conduit. Cl. 122-429.
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- Automatic, Signals, pneumatic. Cl. 246-39.
- Automatic sluing, Rotary cranes. Cl. 212-50+.
- Automatic spindle-feed, Circular section, many-spindle lathes. Cl. 142-5.
- Automatic spindle-lathes, Circular section. Cl. 142-17+.
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- Automatic step-feed, Boring, long-work. Cl. 144-107.
- Automatic step-feed, Mortising, auger-cutter. Cl. 144-71.
- Automatic stop, Drilling-machines, feed mechanisms. Cl. 77-33.
- Automatic stop, Linear, cable. Cl. 212-86.
- Automatic stop, Linear, self-propelled, electric. Cl. 212-132.
- Automatic stop, Rotary cranes. Cl. 212-39.
- Automatic stop, Wire-feeding. Cl. 140-126.
- Automatic switch, acetylene, generators, water feed, holder-operated, series. Cl. 48-7.
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- Automatic switch, Arc, starting and feeding, combined special clutch and operating means. Cl. 176-81.
- Automatic switch, Arc, starting and feeding, combined special clutch and operating means, double dog. Cl. 176-85.
- Automatic switch, Arc, starting and feeding, combined special clutch and operating means, pivot-dog. Cl. 176-87.
- Automatic switch, Arc, starting and feeding, combined special clutch and operating means, ring. Cl. 176-89.
- Automatic switch, Arc, starting and feeding, electromagnetic feed. Cl. 176-101.
- Automatic switch, Arc, starting and feeding, gear-brake. Cl. 176-95.
- Automatic switch, Arc, starting and feeding, gear-detent. Cl. 176-98.
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- Automatic, Systems. Cl. 179-16+.
- Automatic, Systems, call. Cl. 179-88.
- Automatic, Systems, register. Cl. 179-11+.
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- Automatic transverse feed, Burnishing-machines, heel, oscillating jack. Cl. 12-73.
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- Automatic weight-varying, Regulators, outlet-pressure, varying resistance. Cl. 50-17.
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- Automatically-contracting reel, Reeling and unreeling, fabrics. Cl. 242-63.
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- Automatically-governed, Steering-gear, stub-axle type, angle-arms link-connected. Cl. 21-200.
- Automatically-governed, Steering-wheel. Cl. 208-136.
- Automatically-operated, Watch and chain attachments, safety watch-guards. Cl. 63-25.
- Automobile: Cf. Motor-vehicles.
- Automobile, Burners, liquid-fuel. Cl. 158-294+.
- Automobile, Furnace structure. Cl. 110-2.
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- Auxiliary, Annunciators. Cl. 177-325.
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- Auxiliary, Barrels. Cl. 42-77.
- Auxiliary boiler, Water, circulation. Cl. 237-61.
- Auxiliary, Cameras, plate-holders. Cl. 95-72.
- Auxiliary, Compartment. Cl. 122-38.
- Auxiliary, coöperating, Letter-boxes. Cl. 232-29.
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- Auxiliary, Feed-heaters, fire-engine boiler. Cl. 122-418+.
- Auxiliary feeding-receptacles, Lubricators, force-feed, fluid-operated, condensation displacement. Cl. 184-53.
- Auxiliary filament-support, Incandescent. Cl. 176-39.
- Auxiliary frame-brace, Umbrellas. Cl. 135-27.
- Auxiliary, Handles. Cl. 208-127.
- Auxiliary heater, Burners, liquid-fuel, retort. Cl. 158-61+.
- Auxiliary, Letter-boxes, collection devices, safety-receptacle. Cl. 232-32.
- Auxiliary locking devices, Separable fasteners, head-and-socket, lateral closures. Cl. 24-223.
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- Auxiliary, Pedals. Cl. 84-97.
- Auxiliary, Reeling and unreeling, reels, contractile, slidable arm. Cl. 242-114.
- Auxiliary saw, Circular-saw machines. Cl. 113-40.
- Auxiliary snap-contact, Switches, mechanical, oscillating snap. Cl. 175-286.
- Auxiliary, Steam, air injected. Cl. 60-10.
- Auxiliary steam-heater. Cl. 122-36.
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 Axial wedge, Bolts, threadless. Cl. 85-6.
 Axially-adjustable, Sole and heel edge trimmers, rotary cutter-heads. Cl. 12-92.
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B.

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 Integral foot, Buckets, coal, bottoms. Cl. 220-38.
 Integral frame and teeth, Wrenches, sliding adjustments, rack, spring-seated jaw-frame. Cl. 81-147.
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 Interlocking, Floors. Cl. 20-8.
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 Interlocking jaw-handles, Wrenches, sliding adjustments, rack. Cl. 81-131.
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 Intermediate draft, Fire-tube, horizontal, drop water fire-box, water-grate. Cl. 122-67.
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 Intermediate draft, Furnace structure, fire-box, superimposed. Cl. 110-91.
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 Intermediate draft, Water-tube, over bridge-wall, water-grate. Cl. 122-287.
 Intermediate exposure-chamber, Cameras, magazine, sliding plate. Cl. 95-26.
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 Intermediate fulcrum, Wrenches, sliding adjustments, rack, pivoted rack-catch, non-traveling. Cl. 81-136.
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 Intermediate gear, Steering mechanism, wheel-shaft gearing, screw. Cl. 114-156.
 Intermediate gear, Steering mechanism, wheel-shaft gearing, screw, right and left. Cl. 114-158.
 Intermediate keys: *See* Transverse. Cl. 105.
 Intermediate pinion, Transfer mechanism. Cl. 235-139.
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 Intermittent, Milking-machines, suction. Cl. 31-98+.
 Intermittent record, Speed, shaft. Cl. 234-33.
 Intermittent signal, Clocks, electric, striking. Cl. 58-39.
 Intermittent, Thermal switch, systems, display. Cl. 177-347.
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 Intermittent, Water-operated, rotary, peripheral supply, single shaft, gravity-bucket, horizontal axis. Cl. 253-29.
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 Intermittently-operated cam, Valve-operating mechanism, four-cycle. Cl. 123-94.
 Intermittently-operated tappet, Valve-operating mechanism, four-cycle. Cl. 123-95.
 Intermittently-rotated feed-drum, Motion-picture apparatus, picture-strip, intermittent feed. Cl. 88-18.2+.
 Internal air-chamber, Hot-air furnaces. Cl. 126-106.
 Internal air-chamber, Stoves, heating, hot-air. Cl. 126-70.
 Internal and external, Systems of distribution, convertible, multiple current-source. Cl. 191-4.
 Internal annular shell, Tank, jacketed. Cl. 257-209.
 Internal annular tank, Agitators and conveyers, vertical tank. Cl. 257-105.
 Internal, Bottle-stoppers. Cl. 215-28+.
 Internal, Bottles, indicating. Cl. 215-112.
 Internal can, Cans, compartment. Cl. 220-147.
 Internal, Can-making machines, head-seaming, roller, stationary chuck, rotary seaming-tool. Cl. 113-25.
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 Internal combustion: *Cf.* Explosion.
 Internal combustion and air. Cl. 123-22.
 Internal combustion and fluid-pressure, Combined devices. Cl. 123-4+.
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 Internal conduit, Feed-heaters. Cl. 122-428+.
 Internal cushion, Heels, cushion. Cl. 36-37.
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 Internal, Filling-machines, stoppers. Cl. 226-25.
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 Internal fire-tube, Sectional, horizontal sections, superimposed, water-tube. Cl. 122-220.
 Internal fire-tube, Steam treatment, fire-tube boiler, horizontal, superheater, interior steam-space. Cl. 122-463.
 Internal, Fire-tube, vertical, circulation-tube. Cl. 122-118.
 Internal, Fire-tube, vertical, water-tube. Cl. 122-131.
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 Internal flat plate, Vertical casing. Cl. 257-218.
 Internal, Flue, vertical, circulation-tube. Cl. 122-159.
 Internal, Liquid-fuel, burners, vapor, retort, air-mixing. Cl. 67-47.
 Internal plunger, Cutting apparatus, reciprocating die. Cl. 107-26.
 Internal press-mold, Combined machines, pressing and blowing, in separate molds. Cl. 49-10.
 Internal pressure-chamber, Tank. Cl. 257-196+.
 Internal, Provision-safes, evaporative. Cl. 45-133.
 Internal rack, Bicycle, propulsion, crank and gear, train. Cl. 208-47.
 Internal rack, Polycycles, propulsion, crank and gear, train. Cl. 208-53.
 Internal remedies. Cl. 167-7.
 Internal stopper, Casting apparatus, metal holding and pouring, ladles, bottom-pour. Cl. 22-85.
 Internal tube, Agitators and conveyers, horizontal rotary cylinder. Cl. 257-92+.
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 Movable, Gem-settings. Cl. 63-31.
 Movable jambs, Door and window frames. Cl. 20-12.
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 Movable, Wheel-mounts. Cl. 64-68+.
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 Multiple driving-clutches, Stretcher type, step-by-step traveling bar, clutch-actuated. Cl. 254-70.
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 Multiple driving-pawls, Stretcher type, step-by-step traveling bar, pawl-actuated. Cl. 254-72.
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 Multiple fuel, Furnace structure, progressive feed, grate, chain. Cl. 110-41.
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 Multiple, Gem-settings. Cl. 63-28.
 Multiple grip, Lasting-tools, stretchers. Cl. 12-11.
 Multiple grips, Stretcher type, single-throw lever. Cl. 254-81+.
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 Multiple lens, Optometers. Cl. 88-22.
 Multiple lifters. Cl. 254-89+.
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 Multiple line, Keys. Cl. 178-103.
 Multiple line, Relays, circuit-closing. Cl. 175-330.
 Multiple line, Repeaters, automatic. Cl. 178-73.
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 Multiple, Mirrors. Cl. 45-99.
 Multiple, Mixers, kneaders, and beaters, rotary dasher. Cl. 107-36+.
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 Multiple, Molds, metal, ingots and pigs. Cl. 22-142.
 Multiple, Molds, sand. Cl. 22-130.
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 Multiple offset, Impellers, screw, projected blades. Cl. 170-165.
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 Multiple-operated, Separable fasteners. Cl. 24-205.
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 Multiple piston. Cl. 121-41.
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 Multiple plane, Kites. Cl. 244-23.
 Multiple, Plows, wheel, guide-wheels. Cl. 97-74+.
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 Multiple pulling-grips, Stretcher type, reciprocating lever-actuated grip. Cl. 254-76.
 Multiple pulling-grips, Stretcher type, reciprocating lever-actuated grip, chain. Cl. 254-75.
 Multiple rammer, Molding apparatus, packing sand. Cl. 22-41.
 Multiple rate, Meters. Cl. 171-268.
 Multiple record, Graphophones. Cl. 181-4.
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 Multiple regulating devices. Cl. 50-10+.
 Multiple, Restraining devices, stanchions. Cl. 119-148.
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 Multiple rotary heel-support, Machines, shoe, heel-nailing. Cl. 1-38.
 Multiple saw, Band-saw machines. Cl. 143-22.
 Multiple, Saw-making, setting, pivoted set. Cl. 76-61.
 Multiple, Saw-making, setting, sliding set. Cl. 76-66.
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 Multiple screw, Screw-propeller. Cl. 115-37+.
 Multiple, Screw-threading, implements, dies. Cl. 10-114+.
 Multiple, Separable fasteners. Cl. 24-203+.
 Multiple separator, With fluid treatment. Cl. 233-17+.

Multiple series contact, Transmitters, multiple electrode. Cl. 179-136.
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 Multiple spindle, Pearl and composition, drilling. Cl. 79-11+.
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 Multiple supply, Carbureters, oil-feed. Cl. 48-150.1.
 Multiple supports, Poles and posts. Cl. 189-25.
 Multiple-switch rheostats, Controllers. Cl. 200-7.
 Multiple switchboard, Systems, central. Cl. 179-53+.
 Multiple switchboard, Systems, divided central. Cl. 179-48+.
 Multiple switchboard, Systems, divided central, through-ringing. Cl. 179-47.
 Multiple, Systems, printing, recorders, with type-wheel. Cl. 178-39+.
 Multiple tap-spindle, Screw-threading, tapping, machines. Cl. 10-130+.
 Multiple, Telephones, magnetic, diaphragm. Cl. 179-116.
 Multiple tenon, Tenoning, rotary gaining-cutters. Cl. 144-204.
 Multiple throw, Connectors, quick-detachable, switch, lamp-socket type. Cl. 173-347+.
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 Multiple-tool holder, Tapping mains, closed tool-chamber. Cl. 77-39.
 Multiple-tool support, Lathes, carriage-feeds, slide-rests. Cl. 82-25.
 Multiple track, Traveling cranes, overhead, electric. Cl. 212-22.
 Multiple, Transmitters, diaphragm. Cl. 179-139.
 Multiple trap, Closures and chutes, coin-trap, pivoted, cooperating chute-closure. Cl. 232-59.
 Multiple turret, Combined machines, turret. Cl. 29-36.
 Multiple unit, Water-motors, endless chain. Cl. 170-87.
 Multiple valve, Multiple cylinder, longitudinal. Cl. 121-24.
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 Pivoted, Chains, links, detachable, double lap. Cl. 59-88.
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Rotary, Angular, reciprocating bender, bed clamped work. Cl. 153-26.

Rotary annular gate, Rotary, center supply, single shaft, angular vane. Cl. 253-170.

Rotary annular gate, Rotary, end supply, single shaft, angular vane. Cl. 253-156.

Rotary annular gate, Rotary, end supply, single shaft, jet, plural. Cl. 253-160.

Rotary annular gate, Rotary, peripherals supply, end delivery, angular vane. Cl. 253-123.

Rotary, Apparatus, stills. Cl. 196-12.

Rotary arm, Restraining devices, hitching. Cl. 119-117.

Rotary back and seat, Bedsteads, sofa. Cl. 5-50.

Rotary baffle, Spark-arresters, stack. Cl. 110-137+.

Rotary base, Straight-edge type, base-attached. Cl. 33-78.

Rotary beaters, Grinding-mills. Cl. 83-11.

Rotary bed, Filters. Cl. 210-14.

Rotary bending-head, Angular, reciprocating bender, bed-clamped work. Cl. 153-27.

Rotary bit-stocks: *See* Opposite. Cl. 144.

Rotary blank-carrier, Needle-making. Cl. 163-4.

Rotary, Blotters. Cl. 120-26.

Rotary bolts, Chop-graders. Cl. 83-39.

Rotary, Book and music holders, base-supported. Cl. 45-81.

Rotary bottle, Applying wire, bottles and corks. Cl. 140-95.

Rotary, Bottle-stoppers, pivoted, locking, cam. Cl. 215-39.

Rotary, Bottle-stoppers, tube, valve. Cl. 215-57.

Rotary bottom, Generators, cupola. Cl. 48-66.

Rotary bottom, Generators, cupola, water-jacket. Cl. 48-68.

Rotary brakes. Cl. 13-21+.

Rotary, Breech-loading, sliding breech-block, rearward, magazine. Cl. 42-19.

Rotary brush or roller, Lubricators, elevator-guide lubricators. Cl. 184-23.

Rotary brushes, Brush heads and faces. Cl. 15-37.

Rotary bucket, Weighers. Cl. 73-182.

Rotary, Buildings, jails. Cl. 189-6.

Rotary, Burnishing-tools. Cl. 12-105.

Rotary burs and sinks. Cl. 66-27.

Rotary, Cameras, shutters, pivoted, blade. Cl. 95-61.

Rotary, Cameras, successive plate-section, shifting lens or plate. Cl. 95-38.

Rotary, Carbureters, oil-feed. Cl. 48-153.

Rotary carriage, Circular-saw machines. Cl. 143-57.

Rotary carriage, shingle-machines, tilting table. Cl. 143-15.

Rotary carrier, Acetylene, generators, carbide-feed, measured charges. Cl. 48-48+.

Rotary carrier, Articles, work manipulation. Cl. 263-7.

Rotary, Casters. Cl. 65-55.

Rotary chamber, Furnaces. Cl. 263-32+.

Rotary chamber, Furnaces, agitating. Cl. 263-22.

Rotary chamber, Furnaces, with gas-heater. Cl. 263-16.

Rotary chamber, With fume-arrester, heating-furnace. Cl. 266-18.

Rotary, Charge-forming devices, oil-feeding. Cl. 123-138.

Rotary chuck, Barrel-head making. Cl. 147-39+.

Rotary chuck, Can-making machines, head-seaming, roller. Cl. 113-20+.

Rotary chuck, Soldering, cans, cap. Cl. 113-83+.

Rotary chuck, Soldering, cans, head-seam. Cl. 113-69+.

Rotary, Churns. Cl. 31.

Rotary, Circuit-interrupters. Cl. 175-347+.

Rotary, Circular section, cutter. Cl. 142-40+.

Rotary, Circular section, cutter, chisel, pattern-guide. Cl. 142-39.

Rotary, Circular section, hollow cutter-head, cutter, chisel, radially-inovable, pattern-guide. Cl. 142-28.

Rotary, Circular section, spiral-grooving, cutter. Cl. 142-26.

Rotary, Coal-oil, retorts. Cl. 196-20.

Rotary, Cocks and faucets, compound, reversing. Cl. 137-148+.

Rotary collets, Barbing, barb-wire feeding. Cl. 140-65.

Rotary coilers, Barbing, barb-wire feeding, four-point barbs. Cl. 140-63.

Rotary conical printing-couple, Rotary machines. Cl. 101-121.

Rotary contact, Code-transmitters. Cl. 178-83+.

Rotary contact, Controllers. Cl. 200-8+.

Rotary contact, Switches. Cl. 179-169.

Rotary conveyor: *See* Horizontal. Cl. 257.

Rotary conveyor, Agitators and conveyers, horizontal jacketed cylinder. Cl. 257-86.

Rotary conveying agitator: *See* Vertical. Cl. 257.

Rotary cranes. Cl. 212-28+.

Rotary, Crushers and graters. Cl. 146-9.

Rotary, Cultivators. Cl. 97-25+.

Rotary cutter, Crozing machines. Cl. 147-19+.

Rotary cutter, Cutting, machines. Cl. 164-60+.

Rotary cutter, end-thrust, Shaping. Cl. 144-150.

Rotary cutter-head, Crozing and chamfering barrels, clamped barrel. Cl. 147-13.

Rotary cutter-head, Crozing and chamfering barrels, rotating barrel. Cl. 147-15.

Rotary cutter-heads, Sole and heel edge trimmers. Cl. 12-91+.

Rotary cutter, Jointing staves. Cl. 147-27.

Rotary cutter, Mortising. Cl. 144-82+.

Rotary cutter, Planers. Cl. 144-116+.

Rotary cutter, Sole and heel edge trimmers. Cl. 12-88+.

Rotary cutter, Sole and heel edge trimmers, clamped work. Cl. 12-87.

Rotary cutter, Wire-cutting. Cl. 140-146.

Rotary, Cutters. Cl. 29-103+.

Rotary, Cutters. Cl. 144-218+.

Rotary, Cutters. Cl. 146-11.

Rotary cutters, Tenoning, blind-slat. Cl. 144-200.

Rotary, Cutting apparatus. Cl. 56-45.

Rotary, Cutting, machines, traveling cutter-carriage, motor-driven cutter. Cl. 164-76.

Rotary, Cutting sharpeners. Cl. 76-85.

Rotary cylinder: *See* Horizontal. Cl. 257.

Rotary cylinder, Acetylene, generators, water-feed. Cl. 48-33.

Rotary cylinder, Acetylene, generators, water-feed, holder-operated. Cl. 48-11.

Rotary cylinder, Distributors and feeders. Cl. 10-168.

Rotary cylinder, Rotary. Cl. 121-65+.

Rotary cylinder, Straw-cutters, cutter and bed. Cl. 146-18.

Rotary cylinders, Apparatus. Cl. 149-14.

Rotary dasher, Mixers, kneaders, and beaters. Cl. 107-35+.

Rotary die-block, Horseshoe-making, combined machines, bending and shaping. Cl. 59-54.

Rotary die-block, Horseshoe-making, combined machines, bending, shaping, punching, and creasing. Cl. 59-47+.

Rotary die-block, Horseshoe-making, combined machines, cutting, bending, shaping. Cl. 59-51.

Rotary die-block, Horseshoe-making, combined machines, cutting, bending, shaping, punching, and creasing. Cl. 59-42+.

Rotary die-carrier. Cl. 198-6.

Rotary die, Cutting apparatus. Cl. 107-23.

Rotary digesters, Stock treatment, digestive. Cl. 92-18.

Rotary disk. Cl. 34-32.

Rotary disk: *See* Inclined. Cl. 144.

Rotary disk, Distributors and feeders. Cl. 10-169.

Rotary disk knife, Machines, skiving and splitting. Cl. 69-16.

Rotary disk, Slicers. Cl. 144-176.

Rotary, Display-racks. Cl. 211-20+.

Rotary, Display-racks, sample-sheet. Cl. 211-23.

Rotary distributor, Systems, multiplex. Cl. 178-52+.

Rotary distributor, Systems, transmitters. Cl. 177-381.

Rotary distributing-valve, Lubricators, force-feed, pumps. Cl. 184-35.

Rotary double piston. Cl. 103-44.

Rotary drum: *See* Vertical. Cl. 257.

Rotary-drum carrier, Can-making machines, head feeding and applying, body-feeding. Cl. 113-28.

Rotary drum, Mixers. Cl. 48-187+.

Rotary drum, Sanders, mold. Cl. 25-117.

Rotary drums, horizontal axis, Ore and coal, separators, washers. Cl. 83-86.

Rotary earth-working elements. Cl. 97-62+.

Rotary electrode, Igniters, sparkers, make-and-break. Cl. 123-161.

Rotary electrodes: *See* Inclined and, Cl. 176.

Rotary element, Transmission of power, synchronization. Cl. 172-293.

Rotary, Embossing or penetrating, removable font-carrier. Cl. 197-6.4+.

Rotary end supply, Gas-operated, atmospheric. Cl. 253-38.

Rotary engine. Cl. 60-4.

Rotary, Envelop-machines. Cl. 93-62+.

Rotary feed, Chain-making, welding. Cl. 59-32.

Rotary feed, Lock-releasing, gravity, forwardly-turning released part, article-delivery. Cl. 194-26.

Rotary feed, Sanding devices. Cl. 105-180.

Rotary, Filling-cans, nozzles, cut-offs. Cl. 221-19+.

Rotary, Fire-pots and linings. Cl. 126-149+.

Rotary, Fluid-piston, injectors and aspirators. Cl. 230-14.

Rotary, Folders. Cl. 101-48.

Rotary former, Pottery-machines, jiggers. Cl. 25-26.

Rotary former, Staple-making, cutting and bending. Cl. 59-76.

Rotary, Fuel-feeders, spreader. Cl. 110-115.

Rotary, Furnace structure, progressive feed, grate. Cl. 110-35+.

Rotary, Furnaces, pot. Cl. 263-12+.

Rotary gaining-cutters, Tenoning. Cl. 144-203+.

Rotary gaining-cutters, Tenoning, blind-slat. Cl. 144-201.

Rotary, Gas-operated. Cl. 253-39+.

Rotary, Grain-weigher type. Cl. 253-16.

Rotary grate, Acetylene, generators, water-feed. Cl. 48-34.

Rotary grate, vertical axis, Furnace structure, wet-fuel, garbage and sewage. Cl. 110-13.

Rotary, Grates. Cl. 126-181+.

Rotary, Gravity-molding, traveling mold. Cl. 207-13.

Rotary, Grooming devices, currycombs. Cl. 119-91.

Rotary, Hair-curlers. Cl. 132-20.

Rotary handle, Pipe and rod cutters, traveling, external, thread-feed. Cl. 81-192.

Rotary, Harrows. Cl. 55-13.

Rotary, Harrows, wheel. Cl. 55-20.

Rotary head, Excavators, hydraulic. Cl. 37-47.

Rotary heads, Couplings. Cl. 213-53.

Rotary hearth, Bakers' ovens, charging and removing devices. Cl. 107-60.

Rotary heel-support: *See* Multiple. Cl. 1.

Rotary, Heels. Cl. 36-39.

Rotary hopper, Distributors and feeders. Cl. 10-170.

Rotary, horizontal axis, Self-rakers. Cl. 56-96.

Rotary horizontal, Cylinder, internal. Cl. 34-5.

Rotary hull, Buoyant propeller. Cl. 115-20.

Rotary inclined, Cylinder, internal. Cl. 34-6.

Rotary, Indicators. Cl. 116-49.

Rotary internal tank: *See* Horizontal. Cl. 257.

Rotary, Kilns. Cl. 222-7.

Rotary, Lubricators, force-feed, conveyers, bucket. Cl. 184-63.

Rotary, Lubricators, force-feed, pumps. Cl. 184-31.

Rotary machines. Cl. 101-117+.

Rotary machines. Cl. 199-11.

Rotary machines, Burnishing. Cl. 95-105+.
 Rotary machines, Fabric-making. Cl. 140-1.
 Rotary, Machines, storage-magazine, article-support. Cl. 216-59.
 Rotary, Mail-marking machines. Cl. 101-81+.
 Rotary mandrel or billet, Forging, billet-piercing. Cl. 78-11.
 Rotary markers, Scribes, straight line, ink. Cl. 33-37+.
 Rotary, Marking-machines. Cl. 101-84.
 Rotary, Meat-tenderers. Cl. 17-29.
 Rotary, Meters. Cl. 73-37.
 Rotary, Milk-cans, closures, locking. Cl. 31-80.
 Rotary mixer, Carbonators. Cl. 209-3.
 Rotary mold, Block-presses. Cl. 25-63+.
 Rotary mold, Soap-molding devices. Cl. 25-9.
 Rotary mold-support, Molding devices, presses. Cl. 18-20+.
 Rotary, Motion-picture apparatus, picture-strip, intermittent feed, intermittent-grip type. Cl. 88-18.5.
 Rotary movement, Pencil-sharpeners, implements. Cl. 120-92+.
 Rotary, Multicolor-machines. Cl. 101-89+.
 Rotary multiple dies, Bolt and rivet making. Cl. 10-13.
 Rotary multiple dies, Nut and washer making, forging. Cl. 10-77.
 Rotary nail-carrier, Machines, shoe, wire-nail forming and driving. Cl. 1-31.
 Rotary pans and stirrers, vertical axis, Ore and coal, separators, washers. Cl. 83-87.
 Rotary, Pattern-section, cam-controlled, cutter. Cl. 142-10.
 Rotary, Pattern-section, copying, cutter. Cl. 142-11.
 Rotary, Pattern-section, cutter. Cl. 142-9.
 Rotary picture-disk, Motion-picture apparatus. Cl. 88-18.8.
 Rotary, Pipe and rod cutters, traveling, internal. Cl. 81-194+.
 Rotary, Pipe expanders and flangers, traveling. Cl. 153-81+.
 Rotary piston and valve, Lubricators, force-feed, pumps. Cl. 184-33.
 Rotary, Planographic machines. Cl. 101-100.
 Rotary, Plate. Cl. 197-59.
 Rotary, Plate-machines. Cl. 101-104.
 Rotary, Plovers, steam. Cl. 97-71+.
 Rotary plunger, Die-expressing, plunger and mandrel, integral. Cl. 207-8.
 Rotary, Powder-cans, cut-offs. Cl. 221-64.
 Rotary pumps. Cl. 253-176+.
 Rotary punch and creaser, Horseshoe-making, combined machines, bending, shaping, punching, and creasing, rotary die-block. Cl. 59-48.
 Rotary punch and creaser, Horseshoe-making, combined machines, cutting, bending, shaping, punching, and creasing, rotary die-block. Cl. 59-43.
 Rotary, Purifiers, washer and scrubber. Cl. 48-133+.
 Rotary, Purifiers, washer and scrubber, spray. Cl. 48-136.
 Rotary, Rail. Cl. 188-75.
 Rotary receiver, Wind-motors, receiving-chamber. Cl. 170-5.
 Rotary reciprocating piston. Cl. 123-45.
 Rotary, Refrigerators, ice, central ice-box. Cl. 62-59.
 Rotary, Refrigerators, ice, receptacle, bottle. Cl. 62-77.
 Rotary, Refrigerators, ice, top ice-box. Cl. 62-49.
 Rotary retort, Furnace structure, wet-fuel, garbage and sewage. Cl. 110-14.
 Rotary, Retorts. Cl. 48-121.
 Rotary, Retorts, lids. Cl. 48-125.
 Rotary, Rock-drilling machines. Cl. 255-46+.
 Rotary rubber, Washing-machines. Cl. 68-24.
 Rotary saw, Barrel-head making. Cl. 147-38.
 Rotary scraper. *See* Vertical. Cl. 257.
 Rotary screens, Grain-separators. Cl. 130-16.
 Rotary, Screw-threading, machines, chasing-cutter. Cl. 10-102.
 Rotary, Scribes, straight line, ink, traveling markers. Cl. 33-36.
 Rotary scribing-tool, Barrel-head making, fixed chuck. Cl. 147-37.
 Rotary seaming-tool, Can-making machines, head-seaming, roller, stationary chuck. Cl. 113-24+.
 Rotary set, Saw-making, setting. Cl. 76-59.
 Rotary shaft and gearing, Steering-gear, stub-axle type, angle-arms link-connected. Cl. 21-198+.
 Rotary shaft or spindle, Axles. Cl. 21-153.
 Rotary shaft, Shutter-workers. Cl. 16-136.

Rotary shafts, Train-operated. Cl. 188-62.
 Rotary shell-feed, Ammunition-loading, loading and shell-closing. Cl. 86-27.
 Rotary single piston. Cl. 103-43.
 Rotary slide-carrier, Projecting apparatus, magic lanterns. Cl. 88-27.
 Rotary, Slivering, scoring-plane. Cl. 144-188.
 Rotary snap, Switches, mechanical, rotary. Cl. 175-290.
 Rotary, Soda-water apparatus, syrup-cocks. Cl. 225-34.
 Rotary, Solid piston. Cl. 230-30+.
 Rotary stirrer, Filters, centrifugal, agitating or conveying. Cl. 210-30.
 Rotary stirrer, Furnaces, agitating. Cl. 263-25+.
 Rotary stirrer, Gas-generators. Cl. 209-5.
 Rotary stirrer, With agitating or conveying. Cl. 233-74+.
 Rotary stirrers, Powder-cans. Cl. 221-66.
 Rotary, Stopper-extractors, screw. Cl. 65-50.
 Rotary, Stove-shelves, oven shelf or rack. Cl. 126-338.
 Rotary support, Wind-motors, rotary, parallel axis, frame construction. Cl. 170-77+.
 Rotary support, Wind-motors, rotary, transverse axis. Cl. 170-11.
 Rotary-swab applied, Lubricators, cylinder-lubricators. Cl. 184-20.
 Rotary, Switches, mechanical. Cl. 175-289+.
 Rotary table-carrier, Can-making machines, head feeding and applying, body-feeding. Cl. 113-29.
 Rotary table-carrier, Soldering, cans, cap, rotary chuck, stationary tool. Cl. 113-86.
 Rotary table-carrier, Soldering, cans, cap, rotary tool. Cl. 113-89.
 Rotary table-carrier, Soldering, cans, head-seam, rotary chuck. Cl. 113-75+.
 Rotary table-carrier, Soldering, cans, side seam. Cl. 113-64+.
 Rotary, Tide or wave. Cl. 253-14.
 Rotary tool, Bottle-capping. Cl. 113-5.
 Rotary tool, Burnishing-machines. Cl. 12-77.
 Rotary tool-driving. Cl. 253-2+.
 Rotary tool-holder, Combined machines, turret, tool-turret. Cl. 29-40.
 Rotary tool, Rigs. Cl. 255-19+.
 Rotary tool, Saw-making, dressing and jointing. Cl. 76-50.
 Rotary tool, Soldering, cans, cap. Cl. 113-87+.
 Rotary tool-spindle, Combined machines, multiple-tool holder, axial tool and transversely-movable slide-rest. Cl. 29-53.
 Rotary tool-spindle, Combined machines, multiple-tool holder, longitudinally and transversely movable. Cl. 29-55.
 Rotary tool, Stippling. Cl. 201-8.
 Rotary-tooth feed, Machines, strip, severing, reciprocating cutter. Cl. 216-27.
 Rotary, Track-cleaners, flangers. Cl. 104-176.
 Rotary, Track-guard. Cl. 256-16.
 Rotary, Transmitters, granular, electrode. Cl. 179-129.
 Rotary trap-chamber, Predetermined bulk. Cl. 221.
 Rotary, Treating molten material, converters. Cl. 266-36.
 Rotary-tube agitator: *See* Horizontal. Cl. 257.
 Rotary-tube agitator: *See* Vertical. Cl. 257.
 Rotary tubular cutter, Special-work machines, single or combined, disk-cutting. Cl. 144-23.
 Rotary tubular knife, Machines, skiving and splitting. Cl. 69-9.5.
 Rotary, Twine-holders, take-ups. Cl. 242-145.
 Rotary, Valve actuation, periodic. Cl. 137-146.
 Rotary, Valve actuation, speed-controlled, periodic. Cl. 137-142.
 Rotary valve, Soda-water apparatus, faucets, foam. Cl. 225-25.
 Rotary, Valves. Cl. 123-190.
 Rotary, vertical axis, no switch, Self-raisers. Cl. 56-95.
 Rotary, vertical axis, switch, Self-raisers. Cl. 56-94.
 Rotary, War-ships, turret. Cl. 114-8.
 Rotary, Water-motors. Cl. 170-97+.
 Rotary, water-operated. Cl. 253-22+.
 Rotary, Wheel-fenders. Cl. 105-129.
 Rotary wheel, Straw-cutters. Cl. 146.
 Rotary, Wind-motors. Cl. 170-8+.
 Rotary, Wire, multiple die. Cl. 205-15.
 Rotary work and cutter, Sole-machines, blank-rounding, clamped work. Cl. 12-26.
 Rotary work-carrier, Shaping. Cl. 144-154.
 Rotary work-holder, Capping nails and screws. Cl. 10-158.
 Rotary work-holder, Nail-making, cut nails, horseshoe-nails, finishing. Cl. 10-39.

Rotary work-holder, Nail-making, wire nails. Cl. 10-52.
 Rotary work-holder, Nail-making, wrought nails, horseshoe-nails. Cl. 10-69.
 Rotary work-holder, Nail-making, wrought nails, spikes. Cl. 10-60.
 Rotary work-holder, Screw-making, head-nicking. Cl. 10-6.
 Rotary work-mandrel, Cutting, machines, rotary cutter. Cl. 164-69.
 Rotary work, Milling, pattern-controlled. Cl. 90-13.9.
 Rotary work, Milling, pattern-controlled, reproducing. Cl. 90-13.6+.
 Rotary work, Milling, pattern-controlled, reproducing, duplicating. Cl. 90-13.3+.
 Rotary work, Planing, pattern-controlled, electromagnetically-controlled tool. Cl. 90-24.5.
 Rotary, Wrenches, attachments and adjuncts, cutters. Cl. 81-182.
 Rotatable body, Connectors, quick-detachable, switch, lamp-socket type. Cl. 173-349.
 Rotatable body, Connectors, quick-detachable, switch, lamp-socket type, multiple throw. Cl. 173-348.
 Rotatable, Calendars. Cl. 40-111+.
 Rotatable caps, Keyboards, key caps and stems. Cl. 197-104.
 Rotatable, Changeable exhibitors. Cl. 40-68+.
 Rotatable, Changeable exhibitors, axle-operated. Cl. 40-44.
 Rotatable, Changeable exhibitors, fluid-operated. Cl. 40-39+.
 Rotatable, Changeable exhibitors, motor-operated. Cl. 40-33+.
 Rotatable, Changeable exhibitors, obstacle-operated. Cl. 40-49.
 Rotatable, Closures and chutes, coin-trap, pivoted. Cl. 232-60+.
 Rotatable cover, Lubricators, oil-cup closures. Cl. 184-92+.
 Rotatable die-block, Screw-threading, implements, dies, multiple. Cl. 10-115.
 Rotatable head, Case-shifts, type-bar. Cl. 197-76.
 Rotatable key and contact-block, Connectors, quick-detachable, switch, lamp-socket type. Cl. 173-350+.
 Rotatable key and facial contact, Connectors, quick-detachable, switch, lamp-socket type. Cl. 173-352.
 Rotatable, Lanterns, signal. Cl. 240-24.
 Rotatable, Restraining devices, stanchions. Cl. 119-149.
 Rotatable series, Light-ray type, gun-sights, variable. Cl. 33-54.
 Rotatable shaft, Restraining devices, hitching, releasers. Cl. 119-116.
 Rotatable, Target-traps, pivoted throwing-arm. Cl. 124-6.
 Rotatable valve, Lubricators, gravity-feed, automatic cut-off. Cl. 184-71+.
 Rotatable washer, Locked nut, side lock. Cl. 151-45+.
 Rotatably-supported. Cl. 122-12.
 Rotating abutment, Rotary. Cl. 123-13.
 Rotating barrel, Crozing and chamfering barrels. Cl. 145-14+.
 Rotating burners, Paint, pigments, lamp-black. Cl. 134-63.
 Rotating carriers, Fluid-treating apparatus. Cl. 95-93.
 Rotating collector-plate, Paint, pigments, lampblack. Cl. 134-64.
 Rotating core-bar, Molding apparatus, core-making. Cl. 22-12.
 Rotating cutter and pencil, Pencil-sharpeners, machines. Cl. 120-95.
 Rotating cutter, Gear-cutting. Cl. 90-3+.
 Rotating cutter, Pencil-sharpeners, machines. Cl. 120-96.
 Rotating, Cutters. Cl. 25-109+.
 Rotating cylinder. Cl. 123-43+.
 Rotating cylinder, Paint, pigments, lamp-black. Cl. 134-65.
 Rotating, Doors. Cl. 20-18.
 Rotating, Dust-collectors. Cl. 83-48.
 Rotating gear, Car brakes and catches, driven catch devices. Cl. 187-78.
 Rotating head, Buttons and fasteners, separable, spring. Cl. 24-109.
 Rotating head, Separable fasteners, head-and-socket, axial closures. Cl. 24-221.
 Rotating knife, Tobacco-cutters. Cl. 131-35.
 Rotating mechanism, Rock-drilling machines, impact. Cl. 255-43+.
 Rotating, Mixers, kneaders, and beaters, moving receptacle. Cl. 107-33.
 Rotating, Molding apparatus, pipes vertical, compacting pattern. Cl. 22-18.
 Rotating picker-stems, Cotton-harvesters. Cl. 56-118.
 Rotating, Planters, hand. Cl. 111-23.

Rotating ring, Handles, socket-fastenings, bevel-closing. Cl. 145-87+.

Rotating ring, Machine-chucks and tool-sockets, bevel-closing. Cl. 29-116+.

Rotating ring, Wrenches, pivoted side jaw, bevel-closing. Cl. 81-115.

Rotating rings, Spinning elements, rings and travelers. Cl. 118-60.

Rotating shackle, Padlocks. Cl. 70-107.

Rotating side shaft, Bicycle, propulsion, crank and gear. Cl. 208-49.

Rotating side shaft, Four-cycle. Cl. 123-82.

Rotating side shaft, Polycycles, propulsion, crank and gear. Cl. 208-55.

Rotating table, Casting apparatus, moving mold. Cl. 22-77.

Rotating table, Casting apparatus, pigs. Cl. 22-63.

Rotating table, Molding apparatus. Cl. 22-21.

Rotating table, shifting cutter, Shaping, pattern. Cl. 144-139.

Rotating threaded shank, Wrenches, sliding adjustments, thread. Cl. 81-164.

Rotating tool, Forging, riveting, machines. Cl. 78-53.

Rotating tool, Saw-making, sharpening and gumming. Cl. 76-37+.

Rotating tools, Apparatus. Cl. 149-15.

Rotating transverse shaft, Four-cycle. Cl. 123-83.

Rotating tumblers, Permutation. Cl. 70-53.

Rotating valve, Four-cycle. Cl. 123-80.

Rotating wheel, Power-driven, mechanical. Cl. 197-18.

Rotating work-holder, Boring, brush. Cl. 144-95.

Rotating work-holder, Milling, stationary cutter-axis. Cl. 90-20.

Rotation-counters. Cl. 235-103+.

Roughened: *See* Abraded and, Cl. 41.

Round, Belts. Cl. 74-66.

Round work, Vises. Cl. 81-19.

Round work, Vises, jaw attachments. Cl. 81-39.

Round work, Wrenches, rigid jaws. Cl. 81-120.

Roundabouts. Cl. 46-27.

Rounding: *See* Blank. Cl. 12.

Rounding and backing, Binding-machines. Cl. 11-24.

Rounding, Machines. Cl. 69-6.

Rowing-machines. Cl. 208-41.

Rowlocks. Cl. 9-26.

Rubber. Cl. 36-4+.

Rubber: *See* Artificial. Cl. 106.

Rubber: *See* Artificial ivory and hard. Cl. 106.

Rubber: *See* India. Cl. 16.

Rubber: *See* Reciprocating. Cl. 68.

Rubber: *See* Rotary. Cl. 68.

Rubber bags and tubing, Packages. Cl. 206-69.

Rubber cushion, Spring-wheels, cushioned inner hub. Cl. 152-43.

Rubber cushion, Spring-wheels, cushioned inner rim. Cl. 152-36.

Rubber-dam clamps. Cl. 32-20.

Rubber, Electrical insulating. Cl. 106-13.

Rubber, Erasers. Cl. 120-40.

Rubber, Fabric coating and waterproofing. Cl. 134-17.

Rubber, Guns, spring. Cl. 124-14.

Rubber, Paint. Cl. 134-54.

Rubber receptacles: *See* Cloth, leather, and, Cl. 150.

Rubber, Sole-attaching means. Cl. 36-14.

Rubber, Soles. Cl. 36-32.

Rubber spring, Catapults. Cl. 124-2.

Rubber tires, Tire-setters. Cl. 157-6.

Rubber, Wheels, tires, cushioned. Cl. 105-162.

Rubbers: *See* Hand. Cl. 68.

Rubbing: *See* Daubing and, Cl. 119.

Ruby-pin setters, Special, watchmakers'. Cl. 81-8.

Ruching: *See* Embroidery, laces, and, Cl. 206.

Rudders, Steering mechanism. Cl. 114-162+.

Rufflers and gatherers. Cl. 112-16.

Rugs: *See* Sewing. Cl. 112.

Rulers: *See* Blotters and, Cl. 320.

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 Side-swage, Nut and washer making, forging. Cl. 10-79+.
 Side-swaging, Bolt and rivet making. Cl. 10-18.
 Side-swing, Windows, sliding and swinging sash, separable hinge. Cl. 20-46.
 Side-swinging barrel, Breech-loading. Cl. 42-12+.
 Side tooth, Transfer mechanism. Cl. 235-140+.
 Side-track push-rods, Locomotives. Cl. 213-19.
 Sideboard, Refrigerators, ice. Cl. 62-36.
 Sidehill, Plows. Cl. 97-27.
 Sidewise, Potato-diggers, plow, vibrating screens. Cl. 55-112+.
 Sieve: *Cf.* Screen.
 Sieve movement, Ore and coal, separators, jiggers. Cl. 83-80.
 Sifters and screens, Ore and coal. Cl. 83-56+.
 Sifting, Ash discharge and collecting, ash-pans. Cl. 126-244.
 Sifting, Buckets, coal. Cl. 220-46.
 Sifting, Shovels. Cl. 55-117.
 Sifting-wheels, side delivery, Potato-diggers. Cl. 55-56.
 Sight-feeds, Lubricators. Cl. 184-96+.
 Sight, Letter-boxes, signals. Cl. 232-34+.
 Sight-line controlled, Scribes. Cl. 33-20.
 Sight-openings and ventilators, Umbrellas, covers, linings, and cases. Cl. 135-35.
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 Sign exhibiting: *See* Card, picture, and, Cl. 40.
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 Signal: *See* Intermittent. Cl. 58.
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 Signal, Check in circuit. Cl. 194-8.
 Signal, Check-operated switch. Cl. 194-16.
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 Signal, Reeling and unreeling, reels, fishing-rod type. Cl. 242-84.2.

Signaling: *See* Electric. Cl. 177.
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 Signals at box, Systems, signal-box transmission. Cl. 177-373+.
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 Signals, Draw. Cl. 14-49.
 Signals, Fluid-pressure. Cl. 188-83.
 Signals, Letter-boxes. Cl. 232-34+.
 Signals, Ribbon mechanism. Cl. 197-173+.
 Signature-gatherers, Binding-machines. Cl. 11-25.
 Signs. Cl. 40-125+.
 Silent key, Feed mechanism. Cl. 197-83.
 Silicates: *See* Soluble. Cl. 106.
 Silicates: *See* Soluble. Cl. 134.
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 Silk. Cl. 117-5.
 Silkworm, Special culture. Cl. 119-6.
 Sills and jambs. Cl. 72-98.
 Sills, Weather-strips, hinged. Cl. 20-66.
 Silos, Buildings, bins. Cl. 20-1.4.
 Silver: *See* Gold and, Cl. 75.
 Silver, Electrolysis, aqueous bath. Cl. 204-16.
 Simple system, Suspension. Cl. 14-20.
 Simultaneous, Arc, starting and feeding, multiple arc. Cl. 176-59.
 Simultaneous expansion, Multiple cylinder. Cl. 123-53.
 Simultaneous exposure, Cameras. Cl. 95-18.
 Simultaneous, Systems, signal-box transmission, signals at box. Cl. 177-376.
 Simultaneously, Handle-bars, sectional, adjustable. Cl. 208-121.
 Singeing. Cl. 26-14.
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 Single alarm, Annunciators, electric. Cl. 161-3+.
 Single axis. Cl. 235-115+.
 Single axis, Calculators. Cl. 235-77+.
 Single axis, Calendars, rotatable. Cl. 40-114+.
 Single axis, Fare-registers. Cl. 235-40+.
 Single, Bar-machines. Cl. 199-6.
 Single, Barbed, strands. Cl. 256-7+.
 Single blank, Picture stands and supports. Cl. 40-149+.
 Single bucket, Gas-operated, rotary, center supply, single shaft. Cl. 253-95.
 Single chamber, Furnaces. Cl. 263-40+.
 Single chuck, Pearl and composition, drilling, multiple spindle. Cl. 79-13+.
 Single chuck, Pearl and composition, drilling, single spindle. Cl. 79-14.
 Single circuit, Igniters, sparkers, circuit-closers. Cl. 123-106.
 Single compression, Packing. Cl. 100-57.
 Single contact, Connectors, quick-detachable. Cl. 173-363.
 Single, Cutters, rotary, saw. Cl. 144-223.
 Single cylinder. Cl. 121-45.
 Single cylinder, Pumping. Cl. 121-8+.
 Single cylinder, Single axis, cylinder. Cl. 235-118.
 Single cylinder, Straw-cutters. Cl. 146.
 Single dasher, Churns, reciprocating, crank mechanism. Cl. 31-30.
 Single dasher, Churns, reciprocating, lever mechanism. Cl. 31-35.
 Single deflected image, Geometrical instruments, fiducial. Cl. 88-23+.
 Single, Deliverers. Cl. 133-5+.
 Single delivery, Receptacles, match-safes. Cl. 206-21+.
 Single, Elastic tension devices, compression. Cl. 267-12+.
 Single, Elastic tension devices, tension. Cl. 267-15.
 Single end engagement, Rock-drilling machines, supports. Cl. 255-52.
 Single-faced stitch, Sole-attaching means. Cl. 36-18.
 Single fixed pivot, Vehicle-body lifters, swinging side bars. Cl. 254-50.
 Single fluid, Igniting devices, gaseous, pilot, pressure-operated. Cl. 67-18.
 Single fluid-pressure, Regulators, pressure, throttle. Cl. 103-92+.
 Single frame, Bedsteads, wardrobe-bedsteads. Cl. 5-37.
 Single, Furnace structure, progressive feed, underfeed, progressive-feed grate. Cl. 110-48.
 Single, Furnaces, rotary chamber. Cl. 263-33+.
 Single gate, Terminals, delivery, pressure. Cl. 243-22.
 Single gear, Watches, stem winding and setting, pendant-set, yoke. Cl. 58-72.

Single hand, Single axis, dial and hand. Cl. 235-121.
 Single handle, Drawing-shaves. Cl. 145-49.
 Single hinge, Bracelets. Cl. 63-7+.
 Single impression, Time, workmen's, intermittently-movable record, time-printing wheel, individual record. Cl. 234-46.
 Single impression, Time, workmen's, time-operated record, individual record. Cl. 234-50+.
 Single-impulse systems. Cl. 186-8+.
 Single joint, Clamps, miter. Cl. 144-293.
 Single key, Time, watchmen's, time-operated record. Cl. 234-40.
 Single lever, Forging, tire-upsetting, pivoted clamp. Cl. 78-58.
 Single lower transverse drum, Water-tube, rearwardly-declined, plural upper transverse drum. Cl. 122-302.
 Single, Mixers, kneaders, and beaters, rotary dasher. Cl. 107-38+.
 Single, Molds, metal, separable cores. Cl. 22-152.
 Single or combined, Special-work machines. Cl. 144-20+.
 Single or offset contact, Distance. Cl. 33-169+.
 Single passage, Lubricators, force-feed, fluid-operated, condensation displacement. Cl. 184-51.
 Single pawl, Feed mechanism, escapement. Cl. 197-86.
 Single phase, Motors, alternating. Cl. 172-275+.
 Single piece, Hooks, wire. Cl. 248-27.
 Single pivot, Furniture, self-leveling, berths. Cl. 114-193.
 Single plane sectional, Radiator type. Cl. 257-153.
 Single point, Parallel depression, positive connections, duplex. Cl. 267-7.
 Single puppet-valve, Four-cycle. Cl. 123-79.
 Single rail. Cl. 105-233+.
 Single reciprocating dasher, Mixers, kneaders, and beaters. Cl. 107-42.
 Single-reel and web, Calendars. Cl. 40-116+.
 Single reel and web, Changeable exhibitors. Cl. 40-82+.
 Single revolution, Four-cycle. Cl. 123-77.
 Single saw, Jointing staves. Cl. 147-30+.
 Single shaft, Gas-operated, rotary, center supply. Cl. 253-85+.
 Single shaft, Gas-operated, rotary, end supply. Cl. 253-65+.
 Single shaft, Gas-operated, rotary, peripheral supply. Cl. 253-41+.
 Single shaft, Rotary, center supply. Cl. 253-163+.
 Single shaft, Rotary, end supply. Cl. 253-148+.
 Single shaft, Rotary, peripheral supply. Cl. 253-101+.
 Single shaft, Rotary pumps, center supply. Cl. 253-187+.
 Single shaft, Rotary pumps, end supply. Cl. 253-179+.
 Single shaft, Water-operated, rotary, peripheral supply. Cl. 253-26+.
 Single, Shutter-fasteners, catches. Cl. 16-127.
 Single snap, Switches, mechanical, oscillating snap. Cl. 176-288.
 Single spindle, Pearl and composition, drilling. Cl. 79-14.
 Single spool, Spool-holders, receptacles. Cl. 242-138.
 Single stile. Cl. 228-22.
 Single stile, Flexible. Cl. 228-10.
 Single supply, Rotary pumps, center supply, single shaft. Cl. 253-194+.
 Single-surface plunger, Block-presses, rotary mold, facial, intermittent. Cl. 25-69+.
 Single-surface plunger, Block-presses, stationary mold. Cl. 25-83+.
 Single-throw lever. Cl. 254-120+.
 Single-throw lever and bar. Cl. 254-113+.
 Single-throw lever and bar, Floor-jack type. Cl. 254-15+.
 Single-throw lever, Floor-jack type. Cl. 254-17.
 Single-throw lever, Hoisting-trucks. Cl. 254-8+.
 Single-throw lever, Nail-extractor type. Cl. 254-21+.
 Single-throw lever, Rail or tie shifters. Cl. 254-44.
 Single-throw lever, Stretcher type. Cl. 254-77+.
 Single-throw lever, Stretcher type, carpet. Cl. 254-62+.
 Single top and bottom rail. Cl. 105-236.
 Single trigger, Breech-loading, upward-tilting breech, locks. Cl. 42-42.
 Single upper drum, Water-tube, straddle. Cl. 122-327+.

Single valve, Weighers, drip-poised. Cl. 73-175.
 Single variation, Annunciator systems. Cl. 177-339.
 Single variation, Annunciators. Cl. 177-329+.
 Single wheel, Steering-gear. Cl. 21-202.
 Single wheel, swiveled mounting, Running-gear, wheeled tongue-supports. Cl. 21-205+.
 Single, Wheels, webs, sheet-metal disks. Cl. 105-169.
 Single, Wind-motors, rotary, parallel axis, adjustable blades, transversely-pivoted. Cl. 170-70.
 Single, Wrenches, clutched head, ratchet, pivoted pawl, reversing. Cl. 81-63.
 Sink-heads and feeders, Molds, metal, ingots and pigs. Cl. 22-147.
 Sinkers: *See* Rotary burs and, Cl. 66.
 Sinkers, Fishing. Cl. 43-17.
 Sinking Pile-drivers. Cl. 61-41.
 Sinks. Cl. 4-36.
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 Simuous passage, Dampers, stovepipe. Cl. 126-297.
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 Siphon, Acetylene, generators, water-feed, holder-operated, valveless. Cl. 48-17.
 Siphon-bottle, Filling-machines. Cl. 226-23.
 Siphon-feed, Burners, liquid-fuel, fuel-feeding, tanks. Cl. 158-51.
 Siphon-head, Bottle-valves. Cl. 215-114+.
 Siphon, Receivers, code-recorders. Cl. 178-91.
 Siphon, Tanks, automatic. Cl. 137-106.
 Siphon-tube, Filling-machines. Cl. 226-24.
 Siphon, Water-closets. Cl. 4-22.
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 Siphons, Lubricators, gravity-feed. Cl. 184-85.
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 Six to twelve wall, Can-seams, crimped. Cl. 220-87.
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 Size and material testers: *See* Combined. Cl. 194.
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 Sizing and burnishing, Tube-machines. Cl. 93-83.
 Sizing and salting apparatus. Cl. 107-43.
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 Skate, Cutting sharpeners. Cl. 76-83.
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 Skeins: *See* Axle. Cl. 21.
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 Skeleton, Body and belt attached, cartridge, belt or sling, loop and pocket holders. Cl. 224-24.
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 Skelping, Tubes. Cl. 80-15.
 Skewed, Curving or straightening, roll. Cl. 153-60.
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 Skids. Cl. 57-18.
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 Skimming, Casting apparatus, metal holding and pouring, ladles. Cl. 22-83.
 Skinning, Dressing. Cl. 17-13.
 Skins, and leather: *See* Hides. Cl. 149.
 Skipping-ropes. Cl. 46-30.
 Skirt, Apparel, stand-supported. Cl. 33-9+.
 Skirt-protectors, Nether garments. Cl. 2-135.
 Skirt-supporters, Nether garments. Cl. 2-136.
 Skirted, Union garments. Cl. 2-145.
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 Skirts, Nether garments. Cl. 2-42+.
 Skiving and splitting, Machines. Cl. 69-9+.
 Skiving, Toe and heel stiffener machines. Cl. 12-62+.
 Skiving, Upper-machines. Cl. 12-58.
 Skylights. Cl. 108-16+.
 Slack-adjusters. Cl. 188-49+.
 Slack-cable stops, Cable, drum, automatic control. Cl. 254-175.
 Slack take-up, Collectors, trolley-retrievers, spring-retracted, rope-actuated. Cl. 191-93.
 Slag, Artificial stone, hydraulic cement. Cl. 106-25.5.
 Slag, Glass. Cl. 106-36.3.
 Slag, Iron and steel direct. Cl. 75-76.
 Slag, Processes. Cl. 49-77.5.
 Slant devices, Penholders. Cl. 120-106+.

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 Slat: *See* Combined. Cl. 16.
 Slat adjustment, Fabric-making, slat and wire, portable machines, strand-twisters. Cl. 140-40.
 Slat and rod: *See* Blind. Cl. 1.
 Slat and wire, Fabric-making. Cl. 140-25+.
 Slat and wire, Fabrics. Cl. 245-11.
 Slat-attaching, Fabric-making, implements. Cl. 140-56+.
 Slat, cane, and straw, Looms. Cl. 139-32.
 Slat-cutting, Fabric-making, slat and wire. Cl. 140-26.
 Slate: *See* Dressing. Cl. 125.
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 Slate and blackboard cleaners, Fountain-brushes. Cl. 15-67.
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 Slats, Shutters. Cl. 189-62+.
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 Sleds. Cl. 208-157+.
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 Sleeve-closures, Body-garments, coats. Cl. 2-64.
 Sleeve, Combined machines, stock and blank feeders, reciprocating gripper. Cl. 29-62.
 Sleeve-inclosed nut, Wrenches, pivoted outer jaw, fixed fulcrum, traveling jaw, rocking sleeve, spring-pressed. Cl. 81-105.
 Sleeve-protectors, Body-garments. Cl. 2-95.
 Sleeve, Watches, cases, pendants, bow-fasteners. Cl. 58-98.
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 Slicing and scoring, Combined machines. Cl. 144-42.
 Slicing and shaving, Combined machines. Cl. 144-43+.
 Slicing, Circular section, cutter. Cl. 142-36.
 Slicing-knife, Jointing staves. Cl. 147-32.
 Slidable arm, Reeling and unreeling, reels, contractile. Cl. 242-113+.
 Slidable cover, Lubricators, oil-cup closures. Cl. 184-94+.
 Slidable gears, Gearing, interchangeably-locked. Cl. 74-58.
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 Slidable keys, Gearing, interchangeably-locked. Cl. 74-59.
 Slidable sections. Cl. 228-24+.
 Slidable sections, Propped. Cl. 228-19.
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 Slide and clamp, Picture-hangers, adjustable. Cl. 40-145.6.
 Slide and detent, Checks, labels, and tags, holders. Cl. 40-17+.
 Slide-bearing lubrication. Cl. 184-5.
 Slide-bearing lubricators, Lubricators. Cl. 184-100.
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 Slide-carriers: *See* Rotary. Cl. 88.
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 Slide, Pen and pencil cases. Cl. 120-19.
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 Slide-rules, Calculators, single axis, disk. Cl. 235-84.
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Sliders, Bed-and-cylinder machines. Cl. 101-155.
 Slides, Tables, extension. Cl. 45-115.
 Sliding. Cl. 269-8.
 Sliding abutment, Rotary. Cl. 121-67+.
 Sliding abutment, Rotary. Cl. 123-14.
 Sliding adjustments, Wrenches. Cl. 81-129+.
 Sliding and pivoted, Keyhole-guards. Cl. 70-61.
 Sliding and return, Cameras, magazine, sliding plate. Cl. 95-24.
 Sliding and rotary, Bolts. Cl. 16-65.
 Sliding and swinging, Breech-closures, transverse. Cl. 89-23.
 Sliding and swinging sash, Windows. Cl. 20-42+.
 Sliding arm, Saw-guides. Cl. 143-166.
 Sliding bar, Buttons and fasteners. Cl. 24-100.5.
 Sliding bar, Floor-jack type, single-throw lever and bar. Cl. 254-16.
 Sliding bar, Single-throw lever and bar. Cl. 254-114+.
 Sliding, Barrels, closures, covers. Cl. 217-84.
 Sliding base, Pins and transfer-wires. Cl. 129-9.
 Sliding bolt, Box-fasteners. Cl. 70-81.
 Sliding bolt, Door-checks. Cl. 16-84.
 Sliding bolt, Lasts, instep-block fasteners. Cl. 12-138.
 Sliding bolt, Padlocks, pivoted shackle. Cl. 70-106.
 Sliding, Bolts. Cl. 16-64.
 Sliding bolts, Sash-fasteners. Cl. 16-119.
 Sliding bolts, Window and door buttons. Cl. 16-143.
 Sliding bottom, Corn-harvesters, stalk-cutters, droppers. Cl. 56-109.
 Sliding, Boxes, closures. Cl. 217-62+.
 Sliding, Boxes, closures. Cl. 220-13.
 Sliding, Boxes, closures, hinged. Cl. 217-59.
 Sliding breech-block, Breech-loading. Cl. 42-14+.
 Sliding, Breech-closures, transverse. Cl. 89-24.
 Sliding, Bulkheads and doors, doors. Cl. 114-120.
 Sliding, Bulkheads and doors, doors, automatic. Cl. 114-119.
 Sliding, Buttons and fasteners, hinged leaf. Cl. 24-100.
 Sliding, Cameras, shutters. Cl. 95-55+.
 Sliding, Car brakes and catches, car-supported, cable-controlled, positive. Cl. 187-84.
 Sliding, Car-stops. Cl. 104-229.
 Sliding carriage, Jointing staves, single saw. Cl. 147-30.
 Sliding, Carriers. Cl. 186-32.
 Sliding, Carriers. Cl. 243-34+.
 Sliding, Cars, passenger, steps, extension. Cl. 105-87.
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 Sliding, Changeable exhibitors, interchangeable plates. Cl. 40-64.
 Sliding clamp, Forging, tire-upsetting. Cl. 78-59.
 Sliding closures: *See* Rotary and, Cl. 59.
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 Sliding coupler, Door mechanism, sliding doors, vertical movement. Cl. 187-60.
 Sliding coupler, Hatch mechanism. Cl. 187-64.
 Sliding detent, Couplings. Cl. 213-55.
 Sliding door. Cl. 263-8.
 Sliding door, Door-springs. Cl. 16-98.
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 Sliding, Door-hangers. Cl. 16-92.
 Sliding door, Locks. Cl. 70-31.
 Sliding, Doors. Cl. 20-19+.
 Sliding, Doors, car. Cl. 20-22+.
 Sliding doors, Door mechanism. Cl. 187-56+.
 Sliding, Filling-cans, nozzles. Cl. 221-27.
 Sliding frame, Bedsteads, wardrobe-bedsteads. Cl. 5-38.
 Sliding frame, Windows, sliding and swinging sash. Cl. 20-48.
 Sliding gate, Saw-making, sharpening and gumming, rotating tool. Cl. 76-41.
 Sliding gates, Cocks and faucets. Cl. 137-5.
 Sliding gripping-piece, Wrenches, hand-grip, pivoted jaw, crossed handles, non-traveling fulcrum. Cl. 81-82.
 Sliding guides, Braces. Cl. 267-53.
 Sliding, Hatches and covers. Cl. 114-202.
 Sliding head, Forging, power hammers and presses. Cl. 78-36+.
 Sliding head, Forging, power hammers and presses, drop, cam-lift. Cl. 78-27.
 Sliding, Impellers, paddle-wheel, feathering-blades. Cl. 170-144+.
 Sliding, Indicators. Cl. 116-50.
 Sliding jaw: *See* Pivoted. Cl. 24.

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 Sliding jaw, cam, Vises. Cl. 81-26.
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 Sliding jaw, handle-lever grip, Wrenches. Cl. 81-126+.
 Sliding jaw, Pliers and tongs. Cl. 81-46.
 Sliding jaw, Wrenches, hand-grip. Cl. 81-85+.
 Sliding jaws, Transplanters. Cl. 55-69.
 Sliding knife, Crozing staves. Cl. 147-23.
 Sliding knife, Straw-cutters. Cl. 146.
 Sliding latch, Handles, socket-fastenings. Cl. 145-105.
 Sliding, Latches. Cl. 70-42.
 Sliding latches: *See* Horizontal. Cl. 213.
 Sliding, Linear, cable, load suspension, rope-catch. Cl. 212-107.
 Sliding, Linear, cable, load suspension, sheave-frame catch. Cl. 212-103.
 Sliding lock: *See* Pivoted or. Cl. 24.
 Sliding lock, Clasps, pivoted. Cl. 24-251.
 Sliding lock, Clasps, resilient. Cl. 24-260.
 Sliding non-pivotal adjustment, Straight-edge type. Cl. 33-103.
 Sliding outer jaw, Wrenches, sliding adjustments, thread, non-traveling nut, intermediate. Cl. 81-167.
 Sliding outer jaw, Wrenches, sliding adjustments, thread, non-traveling nut, terminal. Cl. 81-169.
 Sliding pane, Windows, sash construction. Cl. 20-56.2.
 Sliding part or wedge, Buckles. Cl. 24-194+.
 Sliding part or wedge, Buckles, harness, clamping. Cl. 24-171.
 Sliding part or wedge, Buckles, harness, penetrating tongue. Cl. 24-181.
 Sliding part or wedge, Cord and rope holders. Cl. 24-136.
 Sliding part or wedge, Cord and rope holders, couplings and sockets. Cl. 24-126.
 Sliding pawl, Ratchet-drills. Cl. 77-51.
 Sliding pawls, Bit-stocks, ratchet. Cl. 145-73+.
 Sliding, Pin-fasteners. Cl. 24-162.
 Sliding, Pin-fasteners, guards. Cl. 24-158.
 Sliding, Pins and followers, spring. Cl. 129-6.
 Sliding, Pipe and rod cutters. Cl. 81-201+.
 Sliding piston, Rotary. Cl. 121.
 Sliding piston, Rotary. Cl. 123-16.
 Sliding piston, Rotary, rotary cylinder. Cl. 121-66.
 Sliding pivot, Windows, double movement. Cl. 189-67.
 Sliding pivotal adjustment, Straight-edge type. Cl. 33-102.
 Sliding plane Jointing staves. Cl. 147-33.
 Sliding plate, Cameras, magazine. Cl. 95-23+.
 Sliding plates, Changeable exhibitors. Cl. 40-65+.
 Sliding-poles. Cl. 227-32.
 Sliding, Props. Cl. 208.
 Sliding pusher, Connectors, check, reciprocating parts, article-delivery. Cl. 194-80.
 Sliding pusher, Lock-releasing, gravity, forwardly-turning released part, article-delivery. Cl. 194-27.
 Sliding pusher, Lock-releasing, gravity, reciprocating released part, article-delivery. Cl. 194-39.
 Sliding pusher, Lock-releasing, thrust, pivoted detent, reciprocating coin-mover, article-delivery. Cl. 194-58.
 Sliding pusher, Receptacles, match-safes, single delivery. Cl. 206-26+.
 Sliding rack. Cl. 34-40.
 Sliding rack-catch, Vises, rack-lock. Cl. 81-31.
 Sliding rack-catch, Wrenches, sliding adjustments, rack. Cl. 81-142+.
 Sliding rib, Umbrellas, folding. Cl. 135-26.
 Sliding ring, Handles, socket-fastenings, bevel-closing. Cl. 145-94+.
 Sliding ring, Machine-chucks and tool-sockets, bevel-closing. Cl. 29-123.
 Slidingsash: *See* Vertically. Cl. 189.
 Sliding sash, Windows. Cl. 20-52+.
 Sliding sash, Windows, sliding and swinging sash, horizontally-pivoted frame. Cl. 20-45.
 Sliding sash, Windows, sliding and swinging sash, vertically-pivoted frame. Cl. 20-51.
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Valved, Fountain-pens. Cl. 120-48.

Valved, Hand-oilers, drip-catchers, return. Cl. 221-38.

Valved, Pipe-couplings. Cl. 137-30.

Valved piston. Cl. 123-47.

Valved reciprocating piston. Cl. 103-80+.

Valved, Refrigerators, ice. Cl. 62-64+.

Valved, Refrigerators, ice, top ice-box. Cl. 62-47+.

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Valved, Water-closets. Cl. 4-17.

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Valves, gas and water feed, Acetylene, generators. Cl. 48-58.

Valve, Locks. Cl. 70-124+.

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Vapor, Liquid-fuel, burners. Cl. 67-37+.

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Variable leverage, Cranks. Cl. 208-69.

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Variable, Predetermined bulk, force-discharge. Cl. 221-103.

Variable, Predetermined bulk, pump-supply. Cl. 221-100.

Variable, Predetermined bulk, rotary trap-chamber, axial feed. Cl. 221-109.

Variable, Predetermined bulk, rotary trap-chamber, radial feed. Cl. 221-107.

Variable, Predetermined bulk, sliding trap-chamber. Cl. 221-105.

Variable, Predetermined bulk, stationary trap-chamber, two independent cut-offs. Cl. 221-111.

Variable, Predetermined bulk, stationary trap-chamber, two non-rigidly-connected cut-offs. Cl. 221-113.

Variable, Predetermined bulk, stationary trap-chamber, unitary rotary two-way cut-off. Cl. 221-117.

Variable, Predetermined bulk, stationary trap-chamber, unitary sliding two-way cut-off. Cl. 221-115.

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Variable radius, Rotary cranes. Cl. 212-54+.

Variable radius, Rotary cranes, automatic sluing. Cl. 212-52+.

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Variable signal, Systems, signal-box transmission. Cl. 177-364+.

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Varied surface, Condensers, surface. Cl. 257-33.

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Varying power, For presses. Cl. 138-17.

Varying resistance, Regulators, outlet-pressure. Cl. 50-16+.

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Varying traverse, Bobbin and cop winding, building mechanisms, weft-wind. Cl. 242-43.7.

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Vault, Building-lights. Cl. 88-59.

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Vaults, Buildings. Cl. 72-7.

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Vehicle-attached drum, Vehicle-body lifters, cable-hoist. Cl. 254-48.

Vehicle-battery replacing, Yards and plants. Cl. 104-209.

Vehicle-body lifters. Cl. 254-45+.

Vehicle, Combined light and structure. Cl. 240-7+.

Vehicle in series. Cl. 191-11.

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Vehicle, Light-supports. Cl. 240-57+.

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Vent-bungs, Fermenting, apparatus. Cl. 195-19.

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Vented, Filling-cans, nozzles. Cl. 221-28.

Vented, Filling-cans, nozzles, cut-offs, rotary. Cl. 221-20.

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Vented, Lubricators, force-feed, fluid-operated, steam or air, suction. Cl. 184-59.

Vented, Molds, blowing. Cl. 49-71.

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Ventilated, Body-garments, coats. Cl. 2-65.

Ventilated, Fluid-treating apparatus, dark cabinets, hand-insertion. Cl. 95-92.

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Ventilated, Milk-cans, coolers. Cl. 31-84.

Ventilated, Stoves, cooking, ovens. Cl. 126-21.

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Ventilating, Boxes, crates. Cl. 217-42.

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Ventilators and cleaners. *See* Combined. Cl. 98.

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Ventilators, Head-coverings, hats. Cl. 2-33.

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 Vents, Chills. Cl. 22-183.
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 Vents, Cores. Cl. 22-171.
 Vents, Filling-cans. Cl. 221-31.
 Vents, Filling-cans, nozzles, cut-offs, automatic. Cl. 221-17.
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 Vertical air-tube, Gas and liquid contact, trickler. Cl. 257-56+.
 Vertical air-tube, Radiator type. Cl. 257-141+.
 Vertical aligned fire-tube, Flue, vertical, internal water-tube. Cl. 122-178+.
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 Vertical-angle measurers, Light-ray type. Cl. 33-70+.
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 Vertical axis, Furnace structure, progressive feed, grate, rotary. Cl. 110-36.
 Vertical axis, Grates, oscillatory. Cl. 126-170+.
 Vertical axis, Grates, rotary. Cl. 126-182.
 Vertical boiler, Fire-tube, transverse. Cl. 122-111+.
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 Vertical coil, Vertical casing, internal tube. Cl. 257-229.
 Vertical course, Stuff-working, beating-engines. Cl. 92-25.
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 Vertical drop, Centerboards. Cl. 114-138+.
 Vertical drop, Fuel-feeders. Cl. 110-118.
 Vertical drum, Heating-drum type. Cl. 257-172+.
 Vertical drum, Heating-drum type, air-conduit. Cl. 257-167+.
 Vertical drum, Spark-arresters, smoke-box. Cl. 110-126.
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 Vertical, Fire-tube, flue. Cl. 122-48.
 Vertical, Flue. Cl. 122-155+.
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 Vertical, Furnaces, rotary chamber, single. Cl. 265-35.
 Vertical hoist and dump, Loading and unloading. Cl. 214-12.
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 Vertical, Molds, sand, with cores. Cl. 22-133.
 Vertical mortise, Breech-loading, sliding breech-block. Cl. 42-23+.
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 Vertical offset, Cutters, inserted blade. Cl. 29-100.
 Vertical-pipe, Flasks. Cl. 22-98.
 Vertical pipes and tubes, Molding. Cl. 49-31.
 Vertical pivot, Boxes, crates, knockdown, folding. Cl. 217-48.
 Vertical pivot, Boxes, knockdown, folding. Cl. 217-16.
 Vertical pivot, Trunks, tray movers and supporters, pivoted tray. Cl. 190-32.
 Vertical plane, Radiator type, zigzag. Cl. 257-149.
 Vertical, Planing, planers, reciprocating cutter. Cl. 90-43+.
 Vertical plate, Liquid-coolers, tank. Cl. 62-163+.
 Vertical plate, Trickler. Cl. 257-187.
 Vertical, Purifiers, washer and scrubber, rotary. Cl. 48-134.
 Vertical, Radiator type, loop-tube. Cl. 257-145.

Vertical, Radiator type, spur-tube. Cl. 257-147.
 Vertical, Reeling and unreeling, reels, spring-drum type. Cl. 242-109.
 Vertical, Retorts. Cl. 48-123.
 Vertical return, Vertical casing, internal tube. Cl. 257-222.
 Vertical rotary agitator, Agitators and conveyers, plate. Cl. 257-117.
 Vertical rotary agitator, Agitators and conveyers, plate, superposed. Cl. 257-118.
 Vertical rotary agitator, Agitators and conveyers, vertical tank, internal tube. Cl. 257-106.
 Vertical rotary agitator, Agitators and conveyers, vertical tank, jacketed. Cl. 257-108.
 Vertical rotary agitator, Agitators and conveyers, vertical tank, jacketed, internal tube. Cl. 257-109.
 Vertical rotary, Agitators and conveyers. Cl. 257-120.
 Vertical rotary conveying-agitator, Agitators and conveyers. Cl. 257-112.
 Vertical rotary drum, Agitators and conveyers. Cl. 257-110+.
 Vertical rotary plate, Agitators and conveyers. Cl. 257-115.
 Vertical rotary scraper, Agitators and conveyers. Cl. 257-113+.
 Vertical rotary-tube agitator, Agitators and conveyers, plate, superposed. Cl. 257-119.
 Vertical rotary-tube agitator, Agitators and conveyers, vertical tank. Cl. 257-104.
 Vertical rotary-tube agitator, Agitators and conveyers, vertical tank, jacketed. Cl. 257-107.
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 Vertical, Saw-table gages, angular adjustment. Cl. 143-170.
 Vertical, Sawing, reciprocating saw. Cl. 23-74.
 Vertical screen, Carburetors, capillary. Cl. 48-158.
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 Vertical sectional, Radiator type, sheet metal. Cl. 257-140.
 Vertical sections, Sectional. Cl. 122-221+.
 Vertical shafts. Cl. 34-34.
 Vertical shift, Case-shifts, platen. Cl. 197-73.
 Vertical single dasher, Churns, rotary. Cl. 31-42.
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 Vertical slide, Doors, car, grain. Cl. 20-32+.
 Vertical slide, Switches, hook. Cl. 179-165.
 Vertical sliding pins, Couplings, Janney type. Cl. 213-14.
 Vertical spindle, automatic centering, Journal-boxes. Cl. 64-48.
 Vertical spindle, Journal-boxes, lubricating. Cl. 64-56.
 Vertical spur, Flue, vertical, internal water-tube. Cl. 122-181.
 Vertical spur, Vertical casing, internal tube. Cl. 257-231.
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 Vertical, Stalk-choppers, revolving. Cl. 55-62.
 Vertical, Steam treatment, fire-tube boiler. Cl. 122-467.
 Vertical, Steam treatment, flue-boiler. Cl. 122-468.
 Vertical swing, Windows, sliding and swinging sash, separable hinge. Cl. 20-47.
 Vertical, Tank. Cl. 122-234.
 Vertical tank, Agitators and conveyers. Cl. 257-103+.
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 Vertical, Vertical casing, internal tube. Cl. 257-224+.
 Vertical, Water-tube. Cl. 122-332+.
 Vertical, Water-tube, coil. Cl. 122-249+.
 Vertical, Water-tube, internal fire-tube. Cl. 122-271+.
 Vertical, Water-tube, loop, over fire-box. Cl. 122-282+.
 Vertical water-tube, Radiator type, motor-vehicle. Cl. 257-129+.
 Vertical, Water-tube, spur. Cl. 122-318+.
 Vertical zigzag, Tank, internal tube. Cl. 257-206.
 Vertical zigzag, Vertical casing, internal tube. Cl. 257-223.
 Vertically-adjustable arm, Drilling-machines radial. Cl. 77-28.
 Vertically-adjustable burner or tank, Burners, liquid-fuel, fuel-feeding, maintained oil-level. Cl. 158-42.
 Vertically-adjustable, Fabric-making, slat and wire, portable machines, strand-twisters. Cl. 140-43.
 Vertically-adjustable, Hinges. Cl. 16-113.
 Vertically-adjustable, Light-supports. Cl. 240-67+.
 Vertically-adjustable, Thresher attachments. Cl. 193-18.

Vertically and folding, Light-ray type, gun-sights, variable. Cl. 33-57.
 Vertically and laterally, Light-ray type, gun-sights, variable. Cl. 33-56.
 Vertically, Grates, adjustable. Cl. 126-154.
 Vertically-guided, Tide or wave, float. Cl. 253-10.
 Vertically, laterally, and folding, Light-ray type, gun-sights, variable. Cl. 33-55.
 Vertically, Light-ray type, gun-sights, variable. Cl. 33-58.
 Vertically-movable bed, Jointing staves, inclined molding-heads. Cl. 147-26.
 Vertically-movable, Feeding, tables. Cl. 80-47.
 Vertically-moving frame, Bedsteads, invalid. Cl. 5-45.
 Vertically-moving frame, Bedsteads, sofa. Cl. 5-51.
 Vertically-movable jib, Rotary cranes, fluid. Cl. 212-33+.
 Vertically-movable jib, Rotary cranes, fixed radius. Cl. 212-64.
 Vertically-movable jib, Rotary cranes, variable radius. Cl. 212-57.
 Vertically-movable valve, Lubricators, gravity-feed. Cl. 184-82.
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 Vertically-pivoted. Cl. 39-87.
 Vertically-pivoted, Car brakes and catches, car-supported, speed-controlled, rail side. Cl. 187-91.
 Vertically-pivoted frame, Windows, sliding and swinging sash. Cl. 20-51.
 Vertically-pivoted, Mechanically-operated. Cl. 39-51+.
 Vertically-pivoted, Mechanically-operated, automatic return. Cl. 39-22+.
 Vertically-pivoted sash, Windows, sliding and swinging sash, sliding frame. Cl. 20-48.
 Vertically-pivoted sash, Windows, sliding and swinging sash, sliding stile. Cl. 20-50.
 Vertically-reciprocating valve, Lubricators, gravity-feed, automatic cut-off. Cl. 184-74+.
 Vertically-reciprocating vibrator, Ribbon mechanism, visible. Cl. 197-159.
 Vertically-slidable hatch, Hatch mechanism. Cl. 187-66.
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 Vertically-sliding, Draw, gates, bridge-operated, displacement. Cl. 14-58+.
 Vertically-sliding, Draw, gates, bridge-operated, shaft rotation. Cl. 14-66+.
 Vertically-sliding, Draw, gates, hand or motor operated. Cl. 14-52.
 Vertically-sliding sash, Windows. Cl. 189-72+.
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 Vertically-swinging, Draw, gates, hand or motor operated. Cl. 14-53.
 Vertically-swinging hoist-frame. Cl. 212-8+.
 Vertically-swinging jib, Rotary cranes, fluid. Cl. 212-35.
 Vertically-swinging jib, Rotary cranes, variable radius. Cl. 212-58+.
 Vertically-swinging, Window and door buttons. Cl. 16-146.
 Vertically, Tables, adjustable. Cl. 45-111.
 Vertically-traveling material, Kilns. Cl. 25-143.
 Vertically-vibrating diaphragm, Stuff-working, strainers, flat screen, horizontal stationary. Cl. 92-32.
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 Vessels and stands, Heaters. Cl. 219-43.
 Vessels and supply devices, Batteries. Cl. 204-63.
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 Vessels, Water-heaters. Cl. 126-370+.
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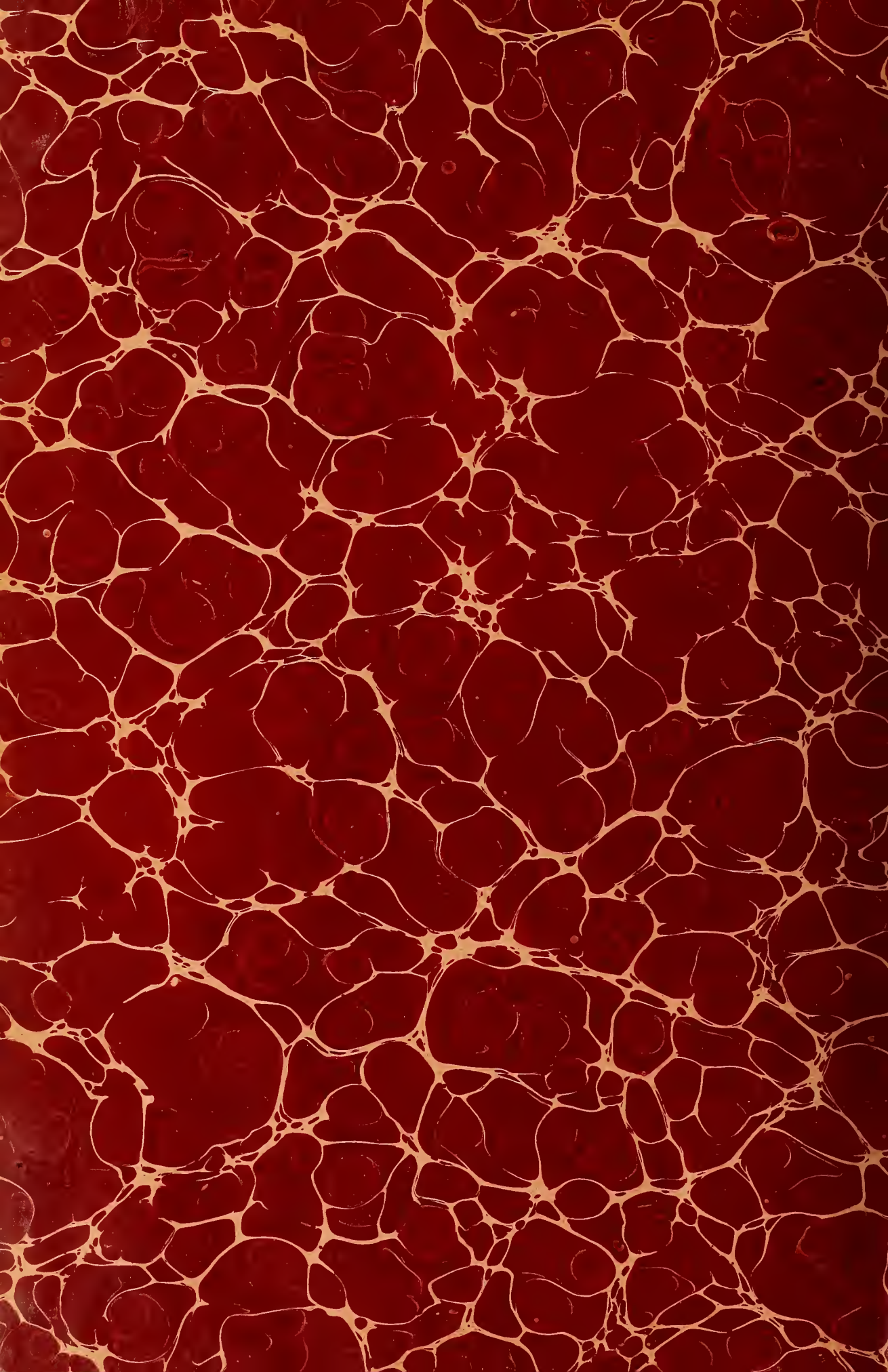
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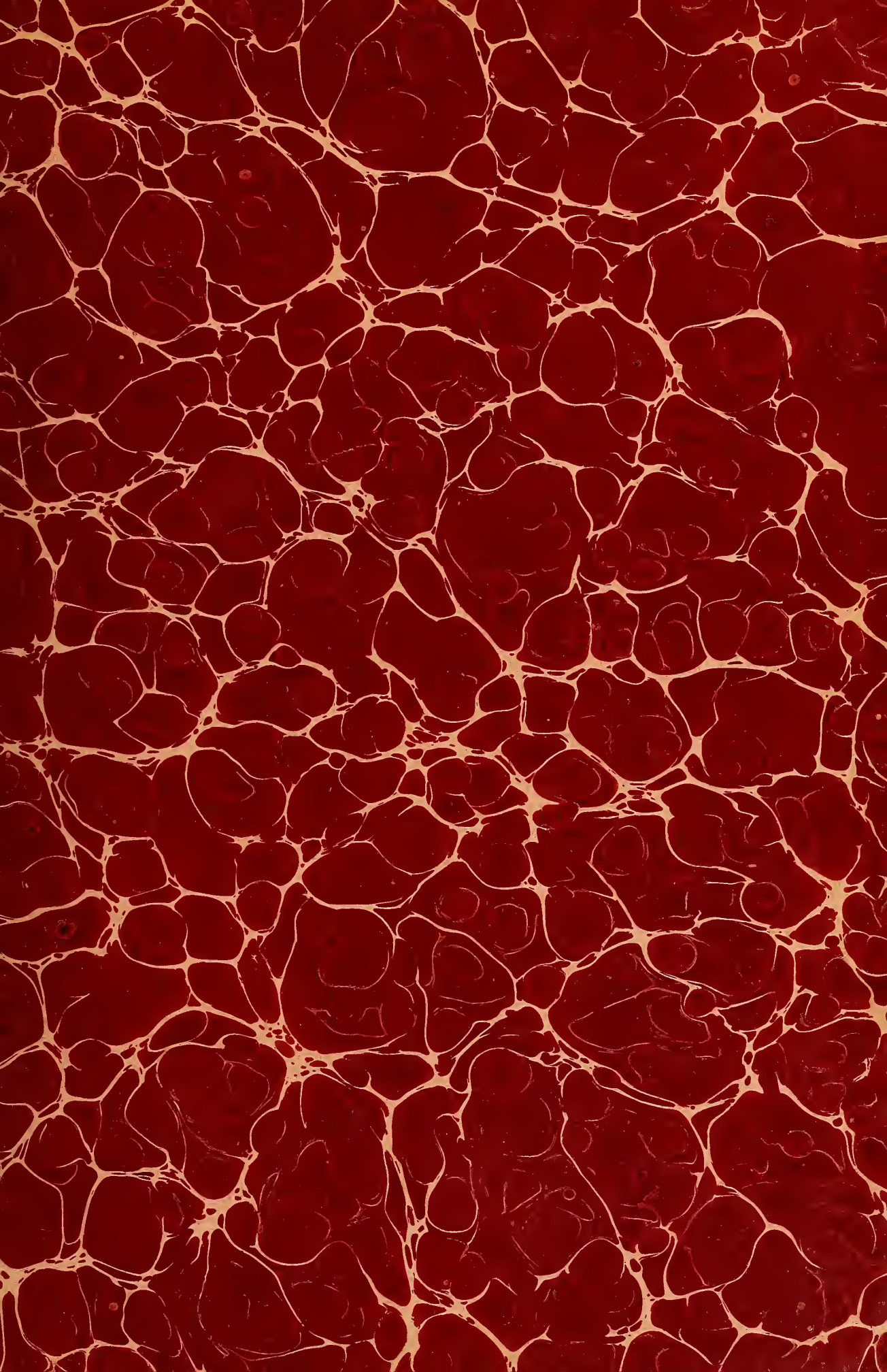
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CLASSES NUMERICALLY ARRANGED.

1. Nailing and stapling.*
2. Apparel.
3. Artificial body members.*
4. Baths and closets.
5. Beds.
6. Bee culture.*
7. Compound tools.*
8. Bleaching and dyeing.
9. Boats and buoys.*
10. Bolt, nail, nut, rivet, and screw making.*
11. Bookbinding.
12. Boot and shoe making.*
13. Brakes and gins.
14. Bridges.*
15. Brushing and scrubbing.
16. Builders' hardware.
17. Butchering.
18. Plastics.*
19. Carding.
20. Wooden buildings.*
21. Carriages and wagons.
22. Metal-founding.*
23. Chemicals.
24. Buckles, buttons, clasps, etc.*
25. Plastic block and earthenware apparatus.*
26. Cloth-finishng.
27. Undertaking.
28. Cordage.
29. Metal-working.*
30. Cutlery.
31. Dairy.
32. Dentistry.
33. Geometrical instruments.*
34. Driers.
35. Educational appliances.
36. Boots, shoes, and leggings.*
37. Excavating.
38. Felt and fur.
39. Gates.*
40. Card, picture, and sign exhibiting.*
41. Ornamentation.*
42. Firearms.*
43. Fishing and trapping.
44. Fuel.
45. Furniture.
46. Games and toys.
47. Trees, plants, and flowers.
48. Gas. Heating and illuminating.*
49. Glass.*
50. Fluid-pressure regulators.*
51. Grinding and polishing.
52. Explosives.
53. Domestic cooking vessels.
54. Harness.*
55. Harrows and diggers.
56. Harvesters.
57. Hoisting.
58. Horology.*
59. Chain, staple, and horseshoe making.*
60. Miscellaneous heat-engine plants.*
61. Hydraulic engineering.
62. Refrigeration.*
63. Jewelry.*
64. Journal-boxes, pulleys, and shafting.
65. Kitchen and table articles.
66. Knitting and netting.
67. Illuminating-burners.*
68. Laundry.
69. Leather manufactures.*
70. Locks and latches.
71. Fertilizers.
72. Masonry and concrete structures.*
73. Measuring instruments.
74. Machine elements.
75. Metallurgy.
76. Metal tools and implements. Making.*
77. Boring and drilling.*
78. Metal forging and welding.*
79. Button-making.*
80. Metal-rolling.*
81. Tools.*
82. Turning.*
83. Mills.
84. Music.
85. Driven, headed, and screw-threaded fastenings.*
86. Arms, projectiles, and explosive charges. Making.*
87. Oils, fats, and glue.
88. Optics.*
89. Ordnance.*
90. Gear-cutting, milling, and planing.*
91. Coating.*
92. Paper-making and fiber liberation.*
93. Paper manufactures.*
94. Paving.
95. Photography.*
97. Plows.
98. Pneumatics.
99. Preserving.
100. Presses.
101. Printing.
102. Ammunition and explosive devices.*
103. Pumps.
104. Railways.
105. Railway rolling-stock.
106. Elastic compositions.*
107. Bread, pastry, and confection making.*
108. Roofs.*
109. Safes.
110. Furnaces.*
111. Seeders and planters.
112. Sewing-machines.
113. Sheet-metal ware. Making.*
114. Ships.*
115. Marine propulsion.*
116. Signals.
117. Silk.
118. Spinning.*
119. Animal husbandry.*
120. Stationery.*
121. Steam-engines.
122. Liquid heaters and vaporizers.*
123. Internal-combustion engines.*
124. Air-guns, catapults, and targets.*
125. Stone-working.
126. Stoves and furnaces.*
127. Sugar and salt.
128. Surgery.
129. Paper files and binders.*
130. Threshing.
131. Tobacco.
132. Toilet.
133. Coin-handling.*
134. Liquid coating compositions.*
135. Tents, canopies, umbrellas, and canes.*
136. Steam-engine valves.
137. Water distribution.
138. Hydraulic motors.
139. Weaving.
140. Wire-working.*
141. Washing apparatus.
142. Wood-turning.*
143. Wood-sawing.*
144. Woodworking.*
145. Woodworking-tools.*
146. Vegetable cutters and crushers.
147. Coopering.*
148. Annealing and tempering.
149. Hides, skins, and leather.
150. Cloth, leather, and rubber receptacles.*
151. Nut and bolt locks.*
152. Resilient tires and wheels.
153. Metal-bending.*
154. Laminated fabric and analogous manufactures.*
155. Chairs.
156. Curtains, shades, and screens.
157. Wheelwright-machines.*
158. Liquid and gaseous fuel burners.*
160. Steam and vacuum pumps.
161. Time controlling mechanism.*
162. Injectors and ejectors.
163. Needle and pin making.*
164. Cutting and punching sheets and bars.*
165. DESIGNS.
166. Wells.*
167. Medicines.
168. Farriery.*
169. Fire-extinguishers.
170. Motors—Fluid-current.*
171. Electricity—Generation.
172. Electricity—Motive power.
173. Electricity—Conductors.
174. Electricity—Medical and surgical.
175. Electricity—General applications.
176. Electric lamps.*
177. Electric signaling.
178. Telegraphy.*
179. Telephony.*
181. Acoustics.*
182. Sewerage.
184. Lubrication.*
185. Motors.*
186. Store-service.*
187. Elevators.*
188. Railway-brakes.
189. Metallic building structures.*
190. Baggage.*
191. Electricity—Transmission to vehicles.*
192. Clutches.
193. Conveyers.
194. Check-controlled apparatus.*
195. Alcohol.
196. Mineral oils.
197. Type-writing machines.*
198. Matrix-making.
199. Type-set making.
200. Electricity—Circuit makers and breakers.
201. Metal-ornamenting.*
202. Charcoal and coke.
203. Ammonia, water, and wood distillation.
204. Electrochemistry.
205. Metal-drawing.*
206. Special receptacles and packages.*
207. Plastic metal working.*
208. Velocipedes.
209. Carbonating beverages.
210. Water purification.
211. Store furniture.
212. Traversing hoists.*
213. Railway draft-appliances.
214. Loading and unloading.
215. Bottles and jars.
216. Label-pasting and paper-hanging.*
217. Wooden receptacles.*
218. Button, eyelet, and rivet setting.*
219. Electric heating and rheostats.*
220. Metallic shipping and storing vessels.
221. Dispensing.
222. Hydraulic cement and lime.
223. Apparel apparatus.
224. Package and article carriers.*
225. Dispensing beverages.
226. Packaging liquids.
227. Fire-escapes.
228. Ladders.
229. Paper receptacles.*
230. Air and gas pumps.
231. Whips and whip apparatus.*
232. Deposit and collection receptacles.*
233. Centrifugal-bowl separators.*
234. Recorders.*
235. Registers.*
236. Dampers. Automatic.
237. Heating systems.*
238. Railway-ties and fasteners.
239. Railway-rails and joints.
240. Illumination.*
241. Garment-supporters.
242. Winding and reeling.*
243. Pneumatic despatch.*
244. Aeronautics.*
245. Wire fabrics and structure.*
246. Railway signaling.
247. Electricity—Conduits.
248. Supports.
250. Radiant energy.*
252. Substance preparation.
253. Motors—Fluid.*
254. Pushing and pulling implements.*
255. Earth-boring.*
256. Fences.*
257. Heat exchange.*
258. Railway mail delivery.*
259. Agitating.
261. Gas and liquid contact apparatus.
263. Heating.*
264. Speed-responsive devices.*
266. Metallurgical apparatus.*
267. Spring devices.
268. Closure-operators.
269. Railway-gates.
272. Flexible-sheet-securing devices.
273. Continuous-strip feeding.

*See Definitions of Revised Classes.





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